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TELEPHONE NUMBER:
3617 CENTRAL (3 lines).

**Established in
ENGLAND, 1859.]**

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,
LONDON, E.C. 4.

TELEGRAPHIC ADDRESS:
"CHEMICUS, CANNON, LONDON."
[Charged as two words only.]

**Established in
[AUSTRALASIA, 1885.]**

No. 1,963. Vol. LXXXIX.

SEPTEMBER 8, 1917.

{ Subscription Rate, 12s. 6d. per annum
Single Copies, 6d. each. Winter and Summer
Issues 1s. each. Post Free.

TELEGRAMS: "OPIUM."
PHONES: City 984 & 4038.



The Best House For All Pharmaceutical Products

Proprietors of the

"SILVER CHURN" Dairy Preparations

OLDFIELD, PATTINSON & CO., MANCHESTER

Further Revision of Prices

on and after August 22, 1917, for the

"Allenburys" Milk Foods, Diet, Milk Cocoa, & Milk Food Chocolate

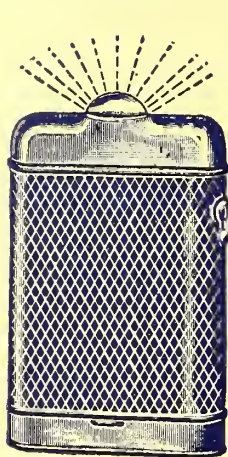
The amended prices yield a profit on return to the Pharmacist of 20 %.

	Size of Package.	Minimum Retail Price.	Gross Wholesale Price, subject to our Monthly a/c terms of 7½
The "Allenburys" Milk Foods Nos. 1 and 2, and Diet.	2/-	2/-	20/6 per doz.
	4/-	4/-	41/- "
The "Allenburys" Milk Cocoa.	2/6	2/6	25/9 "
	4/6	4/6	46/6 "
	9/6	9/6	98/- "
The "Allenburys" Milk Food Chocolate.	1½d. per tablet	...	7/6 per box of 6 dozen tablets.
	5d. " " " "	...	8/6 " " 2 "
	10d. " " " "	...	8/6 " " 1 "
	3/- per box of 2 dozen 1½d. tablets; 30/- per dozen boxes.		

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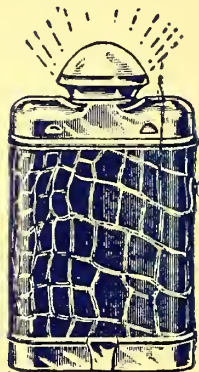
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Salutaris

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Signed

Business Address

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C. & D.

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For Sweetening all Beverages and Foods.

SWEETER THAN SUGAR	Price per Box			BETTER THAN SACCHARINE
	50 Tablets.	100 Tablets.	1000 Tablets.	
	1/2	2/-	18/-	

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THE HONEY OF SUGAR

NULOMOLINE

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1917

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Jan. 18th/17.

"The firm to whom we sold your Salicylic Acid find it perfect and prefer it to the German. They very much regret they have big stocks of the latter, but when buying again they will certainly not go to Germany for it."

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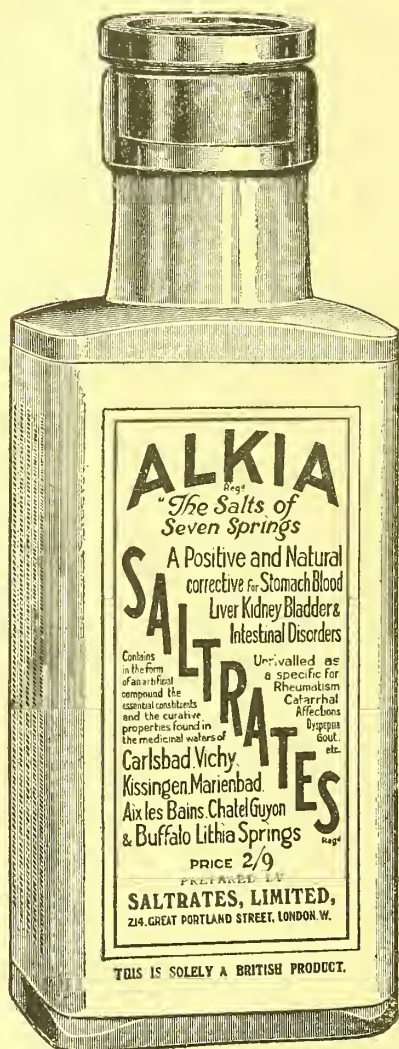
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They always mean a pleased and satisfied Customer,



ALKIA SALTRATES.

A widely advertised product, which is the most efficient saline on the market, and best value for the money. Being highly concentrated, only very small doses are necessary, and there is no trace of unpleasant, salty taste.

Sells at 2/9 a large bottle.
(P.A.T.A.)

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Read what *well-known* users say :



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Eugene Corri



JIMMY WILDE, the Welsh wonder, champion of the world at his weight, writes:—"I am glad to testify to the part that Alkia Saltrates and Reudel Bath Saltrates have fulfilled during the training periods prior to my boxing contests. I am never without both at my training quarters, and never will be."

Jimmy Wilde



Corp. JIM SULLIVAN, ex Middle-weight Champion and well-known Army Physical Trainer, writes: "They are two remarkable products. Alkia 'knocks out' any bad case of liver, kidney or other disorders, also clears out all uric acid. Reudel Baths stop any aches, pains or foot troubles in no time at all. Your ad. writer is too conservative."

Jim Sullivan



Mr. HARRY PILCER, the well-known dancer, writes: "I used Reudel to stop rheumatic pains and stiffness, also Alkia to clear the uric acid out of my blood. In one week I was able to walk without discomfort, and commence practising my dances again. In three weeks my serious rheumatic attack was completely and permanently cured."

Harry Pilcer

Photo, Swaine.]

Not designed as the cheapest preparations of their

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Carriage paid in United Kingdom on orders for 3 dozen, which may be assorted. Handsome showcards of strong selling power sent free on request. Display them in your window, and attract extra business from our present large advertising campaign.

can Recommend with Full Confidence

because they do exactly what our advertisements say.

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Mr. HARRY LAUDER, the great comedian, writes: "Hearing Reudel Bath Saltrates mentioned as being a likely comfort for the boys in the trenches, and knowing from personal experience that it is excellent, I have sent out several packages which have been much appreciated. If this is of interest I have much pleasure in giving full permission to publish this letter."



Harry Lauder



[Photo, Abbey.]

Mlle. GABY DESLYS, the famous Parisian artiste, writes: "I find that a handful of Reudel Bath Saltrates dissolved in the bath makes the water—Oh! so fragrant, refreshing and invigorating! A teaspoonful in a footbath quickly fills the water with oxygen. When the feet are tired, aching or calloused from walking, sports or dancing, these and even worse foot troubles soon disappear."

Gaby Deslys



[Photo, Hana.]

Mr. R. G. KNOWLES, the famous music-hall entertainer, writes: "Am entirely out of Reudel Bath Saltrates. Avert a calamity by sending a fresh supply. For tired feet in summer and twinges of rheumatism in winter it is the best ever. Hurry up. S.O.S."

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Phyllis Monkman



[Photo, Wrather & Buys]

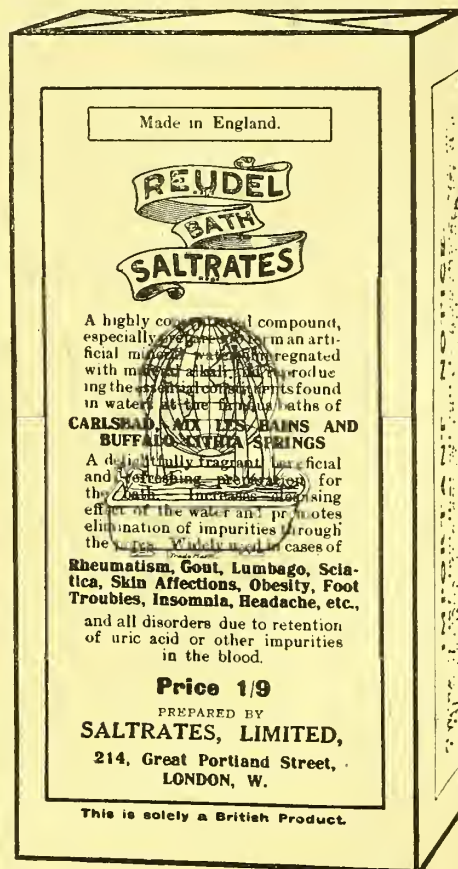
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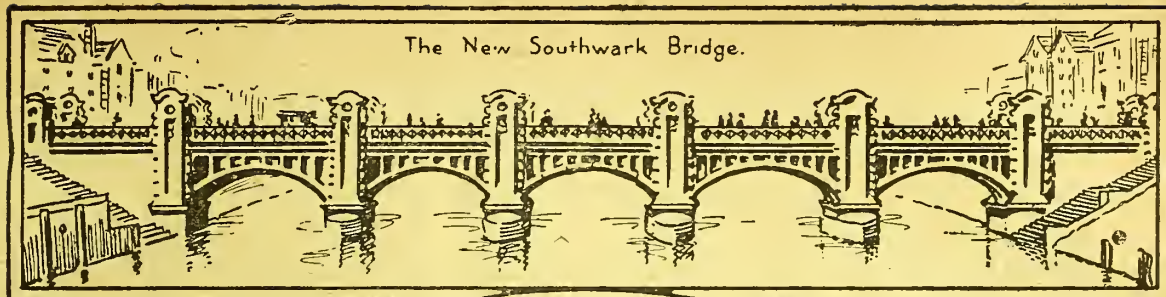
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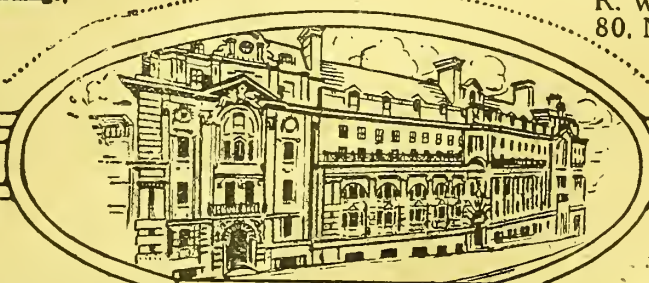
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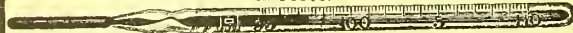


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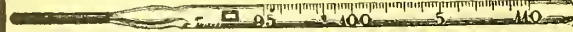
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SEPT. 8, 1917.

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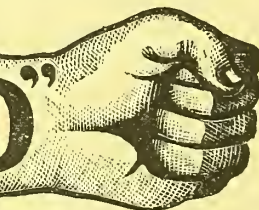
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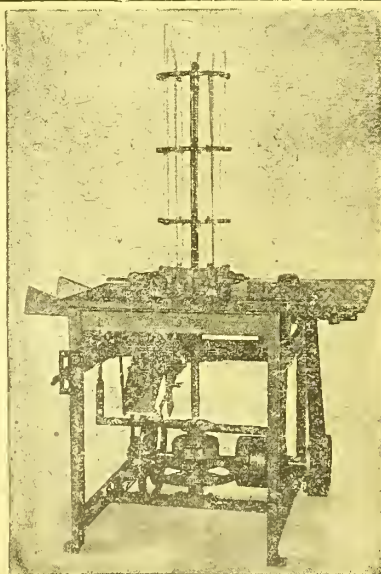
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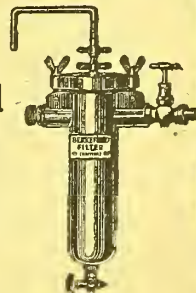
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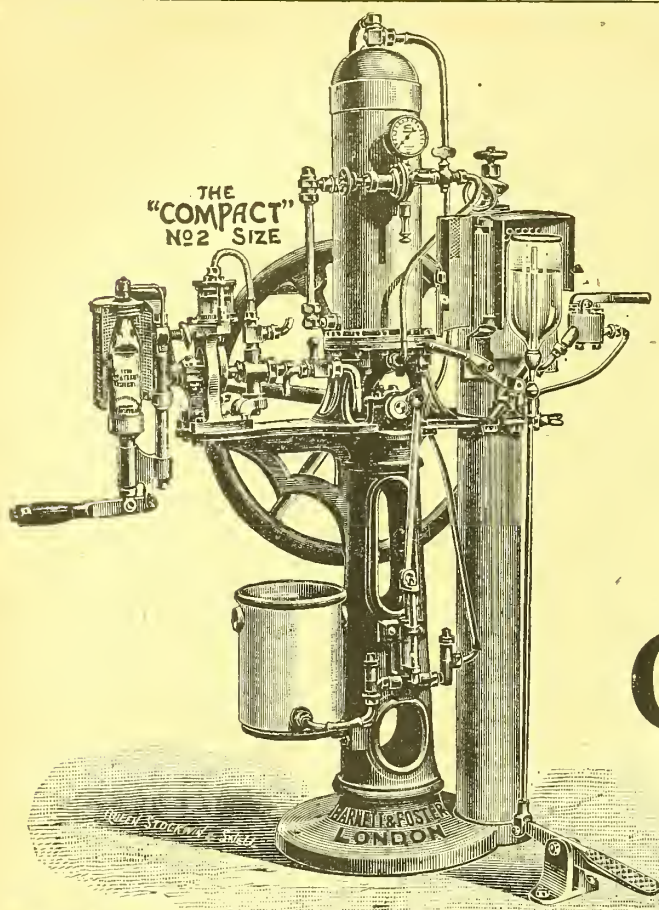
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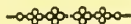
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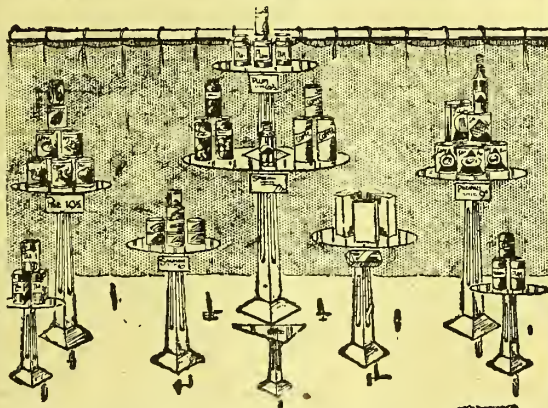
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Wherever the **PASTEUR
FILTER** has been applied,
TYPHOID FEVER has
disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

The British Pasteur Chamberland Filter Co.
5 WHITE STREET, FINSBURY,
LONDON, E.C. 2.

The SHORTAGE of HEALTH SALTS

SPA-SAL PHOSPHATE SALTS

AN
EFFICIENT
SALINE
APERIENT

THE
MORNING
TONIC

EFFERVESCING

A Perfect Saline Aperient

CONTAINING NO SUGAR.

Owing to the great shortage of
sugar we can recommend this
line as being an excellent seller.

*Handsome Showcards and Counter
Display Boxes Supplied.*

SPECIAL OFFER.

69/-

per gross.

SAMPLE TIN,
6d.

POST FREE.

4 dozen

with

Showcards and
Display Box,
Carriage Paid,

24/-

Cash with order.

THOS. GUEST & CO., LTD.

Carruthers Street & Piercy Street,
ANCOATS, MANCHESTER.



FREEMANS

REAL TURTLE Soup Cubes

"Ready to Serve."

Made from the real rich meat of selected West
Indian Turtles—so that real Turtle Soup, once
the privilege only of the rich, is now a delicacy
easily accessible to every household. No
other soup is so nourishing and delicious.

Made in a minute with boiling water.

To retail in 1/- Cartons containing 4 Cubes,

THE WATFORD
MFG. CO., LTD.,

Makers of
Freemans Table
Dainties Boisseliers
(Boy-sel-e-a) Chocolates
and Vi-Cocoa,
Victoria Wks. Watford

Freemans
READY SOUPS
Watford

"FLYBANE" W.D.O.

For industrial purposes.

"VERMIJELLI LIQUID"

For manure heaps. Kills maggots before the flies come into existence.

"GARDEN WASH"

A simple wash for growing plants.

Manufactured by **S. BOWLEY & SON**
Wellington Works, Battersea Bridge, S.W. 11.**OWNER OF LARGE GARDENS OF
LEMON AND ORANGE**

desirous of undertaking the manufacture of Lemon Oil, Citric Acid, Orange Peel, Orange Oil, &c., invites Tenders from gentlemen qualified to advise about necessary up-to-date and economic plant, with details of manufacturing processes.

Apply, stating fee for particulars, to

"Confidential," c/o J. Khambata & Co.
3 & 4 Gt. Winchester Street, London, E.C.*Sole South African
Agent & Shipper for*
JOHN GOSNELL & Co., Ltd.
London.The **STANDARD TABLET
AND PILL CO., Ltd.**, Hove.The **"DO-WELL" FEEDER
VALVES AND TEATS.****ASTELL J. WILLSON**

Chemists' Buying Agent and General Export Merchant

25 MONUMENT ST., LONDON, E.C.

Cable Address: "Acrition London."

Telephone: 5683 Avenue. And P.O. Box 1155 Capetown.

**ALL INDENTS SENT TO
ME WILL RECEIVE MY
PERSONAL AND PROMPT
ATTENTION.***Proprietor of*
"ESTELLE" (Reg.)
Brand of Toilet Articles &
Feeding Bottles.**TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.**
FOR QUOTATIONS apply to—**PRESTON'S LIVERPOOL DISTILLERY CO., LD.**

The Largest Makers in the Kingdom,

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.

The
Only Reliable
INSECT POWDER
"MUHAK".

For Sample, apply to—**UEYAMAYEI INSECTICIDE PRODUCING
AND MANUFACTURING CO.,** Tosabori 3, OSAKA, JAPAN.**FOOD CONTROLLER
DEFIED!**

A Birmingham Corn Merchant writes: "My Rats will not accept the Food Controller's orders and be rationed. Please send me a 5/- tin of 'RODINE' RAT POISON."



"RODINE" makes the final ration for rats. It never fails. It saves the food stuffs. Yields nearly 100% profit to agents. Write for particulars to:

HARLEY,
Manufacturing Chemist,
PERTH, Scotland.Export Agents:
TOZER, KEMSLEY & MILLBOURN, LD.
84 Fenchurch Street, London, E.C.

DR. EVAN WILLIAMS'



A Business Vitalizer,
something with
Real Force behind it.

Apply for Descriptive Price List
and Trade Terms.
289, OXFORD ST LONDON, W.

HENNA SHAMPOO

The White Ensign.

Our Series of Patriotic Tooth Powders has been augmented by the issue of the new **WHITE ENSIGN** package, uniform with the distinctive style of the **ROYAL STANDARD**, **UNION JACK**, and **ENTENTE** lines which have proved such profitable and wonderfully ready sellers. The **WHITE ENSIGN** is put up in the two popular sizes which so well meet the requirements of all classes of trade.

Prices: 24/- and 40/- per gross net.

(A WHITE DENTIFRICE OF SUPER QUALITY AND DELICATE WINTERGREEN FLAVOUR).

Our Flag design tins and tooth powders appeal to the most refined taste. The "White Ensign" is an artistic addition to our already popular patriotic series.

"Newbery's"
FRANCIS NEWBERRY & SONS, LTD.
CHARTERHOUSE SQUARE, LONDON, E.C.

Iron-mould—watch it vanish!
A rust-stain does not mean a catastrophe now. **MOOVOL** saves your blouses from the rag-bag, because it absolutely clears the stain away whilst you look. A touch, a gentle rub, a wait of two minutes and the stain is no more.

MOOVOL
Rings

Removes 'Iron-mould,' Rust, Fruit and Ink Stains.
A Thimbleful in the rinsing water removes the **YELLOW TINGE** from linen. Send 1s. 2d. for a sample at once.

EDGE'S, Bolton, Lancs
Sold by chemists, ironmongers, etc. In 6d. and 1s. tubes

You Reap the Profits!

The above is only one of the many forceful advertisements now appearing in the most influential National publications and Fashion periodicals telling housewives that Iron-mould is no longer immovable. **Moovol** contains no injurious acids and is not harmful to the most delicate fabric.

ARE YOU PARTICIPATING IN THE PROFITS?
Send a P.C. for trial stock and display material to

**WM. EDGE & SONS, LTD.,
BOLTON, LANCs.**

(THE DRUMMER DYE PEOPLE.)

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A. Protected	Dozen
	Retail Price.	Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
" " " " " "	1/2	10/-
" " " " " bottles in cartons	1/6	12/-

***Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.**

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, } 13/6 per dozen
especially suitable for use in Eczema, } boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

BEETHAM'S "LAROLA"

(Registered)

Is the Skin Tonic for 1917.

*It is effective.**It is attractive.**It is price-protected.**It is well-advertised.**It sells readily.**It bears a good profit.*

HAVE YOU OUR SHOWCARD ?

THIS IS WHAT THE "C. & D." SAYS OF IT:

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, CHELTENHAM.

3 Cheap Lines !!!

SOOTHERS.

Transparent Teat on Wood Stem.

(Sells at 2d.) **13/6 gross**

Finest WHITE SOFT CORKS

(worth 1/- gross) in 6 gross bags for **5/6**
Four sizes; separate bags (2 dr., 1 oz.,
4 oz., 8 oz.)

VALVES. Transparent.

12/- gross

Minimum quantities Soothers & Valves: One gross.

Corks ... 6 gross bags.

Carriage paid in U.K. only. Cash with order.

THOMAS SWALES, Sundriesman

24 Butts Court, and 89 Albion Street

LEEDS.

For
**FOUNTAIN
PENS**
and all Pens
the Best.

Dichroic Ink

Makes
Writing
Easy

Proprietors:

Bewley & Draper, Ltd., Dublin.

A Profitable Seller

THE "PORTIA"

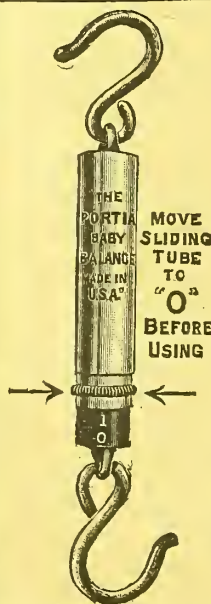
(Regd.)

NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price	Retail
12/6	1/6
dozen.	each.



Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

SOLPORT BROS.,
LIMITED,

184 to 190 Goswell Rd., London, E.C.
Obtainable through all Wholesale Houses.



The Finest Quality
Aerated Waters are
made only with
the Finest Quality
ESSENCES

**Boake
Roberts'**

Soluble Essences are
of the finest quality
and being extremely
concentrated are
most economical

Lemon	Ginger Ale
Orange	Stone Ginger (Cloudy)
Ginger	Clear Ginger Beer
Raspberry	Kola Champagne
Strawberry	Lime Juice and Soda
Pineapple	Lemon Squash
	Vanilla

A. Boake Roberts & Co. L^d
Stratford, London



The Old Order Changeth

When the British last fought in Flanders they depended on gipsy fires for hot food—or went without. Now they use THERMOS Bottles, Food Jars, and Jugs, and are sure of a hot drink or meal on or off duty. Supply the Soldiers and the Sailors through their friends with the genuine

THERMOS

THERMOS LTD.,
Byron House,
2 and 4
Finsbury St.,
LONDON, E.C.



ESTABLISHED

1839.



ROBINSON & SONS, LTD.

BOXES
FOR ALL
PURPOSESBOXMAKERS TO THE
CHEMIST TRADE

CHESTERFIELD & LONDON

SQUARE
ROUND
FOLDING

THE EMPIRE EAU de COLOGNE

Makes friends
wherever introduced,
and will be one of
your best agencies. It
is made to the
highest standard and
distilled to test 50°
overproof.



Present Prices:

1 oz.		7/9 per doz.
2 oz.		14/- ,,
4 oz.		24/9 ,,
8 oz.		46/6 ,,

SHIPPERS AND EXPORTERS SUPPLIED IN BOND.

THE EMPIRE PERFUMERY CO. (Cuxson, Gerrard & Co., Ltd.), OLDBURY.
Proprietors

A cheaper quality is supplied under the Flag label. Please ask for samples of both.

*A Vanishing Snow of
Sound Quality.*

SNOWLEEN

ADVERTISED IN
"THE LADY,"
"COMING FASHIONS,"
etc. etc.



CONTAINS 50%
OF
WITCH HAZEL
EXTRACT.

1/- pots, 7/9 dozen ; 6d. tubes, 3/9. Bonus Terms
(showing 100% Profit) on application.

ALSO SUPPLIED IN BULK AS FOLLOWS :

Per lb, 1/8 ; 7 lb. at 1/6 ; 14 lb. at 1/4 ; 28 lb. at 1/3.

PACKAGES FREE.

Sell a genuine Vanishing Cream which is really beneficial
and healing to the skin, and containing the full percentage of
Witch Hazel Extract.

Sample and particulars from Sole Makers —

WHITE BAND MANUFACTURING CO., LTD., SOUTH CROYDON.

Seasonable Toilet Specialities.

HOVENDEN'S SUPERIOR BRITISH-MADE EAU DE COLOGNE



Nos. 4706/7.

OUR LATEST
PRODUCTION.

* STAR BRAND COLOGNE. *

Extra Quality.

A Cologne that will
recommend itself.

No. 4706. 2 oz. (about) ...	Doz. 17/9
" 4707. 4 (as illustration) ...	32/6
1/2 pints, round bottles, in bulk ...	40/-
1/2 pints, round bottles, in bulk ...	78/-
1 pints, round bottles, in bulk ...	150/-

"STAR" BRAND.



No. 1497.

No. 1496. 2 oz. (about), 11/- doz.
No. 1497. 4 oz. (about), 19 6 doz.

RECENT TESTIMONIAL.

"Many thanks for
Eau de Cologne
received. It cer-
tainly is the best
I have used, and I
am glad we are
not dependent on
another country for
that most refreshing
of Perfumes."

THE IMPERIAL.

No. 4692. 2 oz. (about), 17/- doz.
No. 4693. 4 oz. (about), 30/- doz.

RELIABLE
QUALITY.



Nos. 4692/3.

A GREAT FAVOURITE.



No. 4626. Decorated tins, 5'8 doz.; 66/- gross.

SATISFACTION ASSURED.

A NON-
CREASY
HAIR
FIXER.



No. 4619. 5/- doz.
No. 4620. 10/- doz.

THE MDME. ST. CROIX'S HENNA SHAMPOO POWDER.

Leaves the hair bright after use.



No. 4618/7.

7 Packets in Box. 9/- per doz. boxes.
Customer's own Name FREE on 3-doz. boxes.

HOVENDEN'S SPECIALITIES.

TOILET AND BATH SOAPS AND CRYSTALS.

VISITORS' SOAP TABLETS.

COMPACTE POUDRE PARISIENNE (BRUNETTE, &c.).

SPECIAL QUOTATIONS ON APPLICATION.

SWEET LAVENDER (MANDE MILLETT BRAND).

IMPERIAL BATH CRYSTALS.

THEATRICAL COLD CREAM (The Make-up Remover).

SUBJECT TO 2 1/2 PER CENT. DISCOUNT.

R. HOVENDEN & SONS, Ltd.

29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W. 1. Tel. No.: Museum 2810 (3 lines).
And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C. 1. Tel. No.: 6260 London Wall (2 lines).

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

LONDON.

SAVE 3/- PER GALLON
BY BUYING
GUARANTEED GENUINE
NEWFOUNDLAND NON-FREEZING
MEDICINAL COD LIVER OIL
OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL."

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

LANKSHEAR, WICKSTEAD
& CO., LTD.

Botany Mill, WOODLEY.

Telegrams: "RACEMIC, WOODLEY." Telephone: 180 Hyde.

MANUFACTURERS OF

TARTARIC ACID B.P.

Crystal and Powder.



ASBESTOS
FILTERS and
Filtering Mediums.

ESTABLISHED 1798.

FARROW &
JACKSON, Ltd.

16 Great Tower Street, LONDON, E.C. 3.

WE HAVE SPLENDID
 SAMPLES OF

Corn Silk
Envelopes
 AND
Lemonade
Powder
Envelopes

SAMPLES AND PRICES WILL BE SENT
 ON RECEIPT OF 2d. IN STAMPS.

Samples to the Colonies, full set 10/6,
 which amount we credit on order of £5
 and upwards.

Thomas Waide & Sons

MEDICAL PRINTERS,
 KIRKSTALL ROAD, LEEDS.

Evans Sons Lescher & Webb

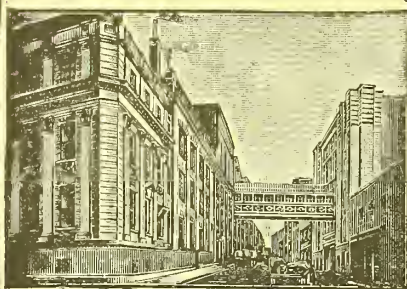
LIMITED,

Liverpool and London.

NEW YORK, U.S.A., WILLIAM STREET.

CAPITAL - £600,000.

OFFICES and WAREHOUSES.

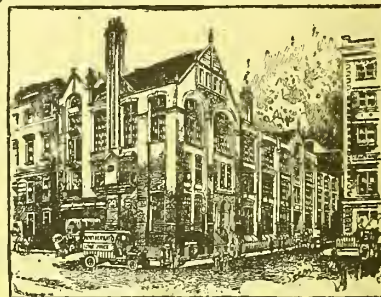


Hanover St., and Seel St., Liverpool.

DIRECTORS:

SIR EDWARD EVANS (*Chairman*)
EDWARD ALFRED WEBB
WILLIAM PATERSON EVANS
ALFRED BICKERTON EVANS
JAMES HERBERT E. EVANS
THOMAS EDWARD LESCHER
HAROLD EDWARD WEBB
JOHN NEVETT EVANS
KENNETH W. E. EVANS
STEPHEN FOSTER WEBB

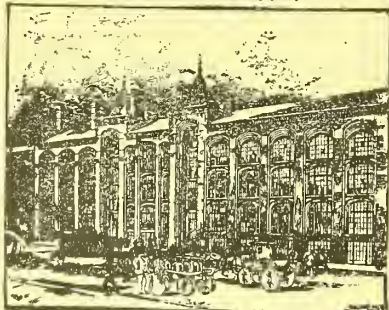
OFFICES and WAREHOUSES.



60 Bartholomew Close, London, E.C.

EVANS

TINCTURE HOUSE.

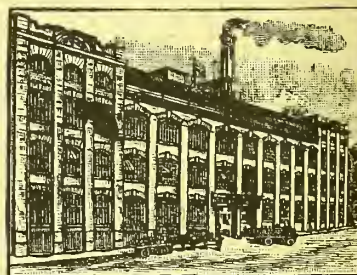


26 to 38 Wood St., Liverpool.

*Under the personal
supervision of
Directors as above.*

Chemical Factory:
ELLESMERE WORKS,
RUNCORN.

PHARMACEUTICAL LABORATORIES and DRUG MILLS.



23 to 29 Fleet St., Liverpool.

BACTERIOLOGICAL LABORATORIES
and DRUG FARM,
Crofton Lodge, Runcorn.

**Wholesale Druggists
AND
Manufacturing Chemists.**

Lists for all Departments in English, Spanish, Russian, etc. etc.

ONE OF TO-DAY'S OPPORTUNITIES

Profit by it without delay. Order a supply of 'TABLOID' TEA and secure a share of the excellent business like many other pharmacists.

'TABLOID'

(Trade Mark)

BRAND

TEA

There is a remarkable demand for 'TABLOID' TEA for sending out to the Front as well as for home use.

Remember that 'TABLOID' TEA has a long-standing reputation, won by quality.



DEEPLY ENTRENCHED
IN TOMMY'S FAVOUR

IT COMMANDS THE BUSINESS

*'Tabloid' Tea is supplied in tins of 100 at 12/0 and 200 at 24/0 per dozen tins.
'Tabloid' Tea, Special Blend, in tins of 100 at 15/0 and 200 at 30/0 per dozen
tins. Prices subject.*



BURROUGHS WELLCOME & CO., LONDON

"LICROMINTS"

THE SUPER CONCENTRATED LUNG, CHEST AND THROAT TABLETS.

They just touch the spot, and stop tickling in the throat.
"LICROMINTS" are only small in size, but are strong and efficacious.

Satisfaction Absolutely Guaranteed.

WE SEND A REAL LIVE SELLING SHOWCARD

Bottles in Litho. Carton **10¹/₂D.** WHOLESALE **7/-** per doz. subject to OUR PROFIT-SHARING DISCOUNT.

Let us Send You a Sample Gross. Get Them Now While You Can.

MADE BY

CUPAL LTD., BLACKBURN

'HOLADIN'

An Extract of the Entire Pancreas Gland.

'Holadin' presents all the constituents of the pancreas gland, both of the digestive and of the internal secretion. 'Holadin,' whilst possessing great tryptic activity, is of special potency in respect to the amylolytic and lipolytic enzymes: it is rich in the important cell-constituents, lecithin and nuclein, which peculiarly abound in the pancreas.

The usual dose is one capsule about three hours after meals, and one at bedtime. In cases of constitutional disease or in serious disorders of digestion attributed to faulty pancreatic functioning the dose may be gradually increased to two or three capsules at a time.

'Holadin,' by the U. S. P. method of assay, exhibits at least four times the starch-converting power of 'Pancreatin' U.S.P., 1900.

Put up in 3 gr. gelatin capsules, and supplied to the Medical Profession in bottles containing 25 and 100.

'HOLADIN' & BILE SALTS

'Holadin,' 2¹/₂ grs.

Bile Salts, ¹/₂ gr.

The Bile Salts are the taurocholate and the glycocholate of soda, as isolated in their natural association from fresh, purified ox-gall.

The usual dose of 'Holadin' and Bile Salts is one capsule, generally advised to be taken from three and one-half to four hours after a meal, or at bedtime.

Supplied in bottles containing 100.

Originated and Manufactured by
FAIRCHILD BROS. & FOSTER,
NEW YORK.

Agents for Europe, Asia, Africa, and Australasia:
BURROUGHS WELLCOME & CO.,
LONDON, SYDNEY, CAPE TOWN.



THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, SEPTEMBER 8, 1917

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.** Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done **PROVIDED the MONEY is TELEGRAPHED** at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

There is no need to guarantee the genuineness of the advertisements in 'The Chemist & Druggist Supplement.'  Everybody in the drug-trade knows that only *bona-fide* paid-for advertisements are inserted. The 'Chemist & Druggist Supplement' knows no dead-heads, for it gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

- 1.—BANKS OF THE THAMES.—Good-class Business; capital position; returns about £2,000; intending investors with £1,100 at command will find this a sound concern; full investigation invited.
- 2.—MAYFAIR, W.—High-class Dispensing and Retail Business; returns about £1,200; gross profit between £650 and £700; the business is known to us, and we can recommend it; valuation £700.
- 3.—SURREY (Suburban).—Good middle-class Retail and Dispensing Business; returns show a steady increase and are now over £1,600; well-appointed shop, handsomely fitted in mahogany, a modern style and fully stocked; vendor will accept first reasonable offer.
- 4.—LONDON, N.E.—Ready-money Business; established many years; held by Vendor upwards of 25; now retiring; returns about £650; net profit £250; comfortable residence; terms, valuation of stock and fixtures; part payment entertained.
- 5.—DALSTON (near).—Brisk Ready-money Business; held by Vendor upwards of 25 years, now retiring; returns average between £1,100 and £1,200 per annum; net profit one-third; Vendor's own property; new lease; price £550.
- 6.—FINSBURY PARK (within easy distance of).—Ready-money Business, situate in busy main thoroughfare; returns, present rate about £1,200 at fair prices; modern-fitted shop and ample stock; comfortable residence, with garden; immediate sale desired.
- 7.—LONDON, S.W. (Distant Suburb).—Retail and Dispensing business; very good connection with local Medical men; returns last year £1,870; net profit £461 (proof given); price £850; stock and fixtures recently valued at £650.
- 8.—SOUTH COAST.—Established Business; Retail, Dispensing, and Prescribing; returns £600 at good prices; rent £30, on lease; price about £250.
- 9.—LEICESTERSHIRE.—Cash Drug Store for disposal through owner having to join up; returns about £630; excellent opening for a qualified man; good residence with garden; rent £28; price £300, or valuation of stock and fixtures.
- 10.—HOME COUNTY.—Very old-established Business; position good; returns last year £949; net profit £240; roomy shop, fitted in mahogany; rent £42 10s., which includes comfortable residence and garden; terms, valuation of stock and fixtures.
- 11.—ENGLAND, S.W.—Partnership (half share) for disposal; Ready-money business; returns £50 weekly, with scope for development; profits about the average; comfortable residence with garden; rent £39; price £450.
- 12.—BRIGHTON.—Retail and Dispensing Business, situate in shopping thoroughfare in chief business centre; returns between £1,400 and £1,500; gross profit last year £570; well-appointed shop and comfortable residence; price about £1,000.
- 13.—BOURNEMOUTH.—Retail and Dispensing Business; held by vendor many years; returns £2,000 yearly at fair prices; terms, goodwill, £100, stock and fixtures by valuation.
- 14.—HEALTH RESORT (within easy reach of London).—Established Business; capital situation; returns under management about £12 weekly; scope for development under personal supervision; attractive double-fronted shop with comfortable residence attached; price £250.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street Fenchurch Street E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—SOUTHERN COUNTY (Fashionable Town).—High-class Retail and Dispensing Business, in fine position; returns over £2,000; elegantly fitted Pharmacy, modern front, and heavily stocked; price £1,100.

2.—HERTS (Market Town).—Most desirable Light Country Retail; easily worked; returns about £900; good profits; excellent house, bathroom, etc.; very best position; well stocked; price for prompt sale, £400 cash; strongly recommended.

3.—SOUTH COAST.—Sound, unopposed Light Retail Business; returns under manager £600; plenty of scope for increase; rising town; low rent; modern fitted shop, fully stocked, price £375.

4.—N. DEVON.—Unopposed Light Country Retail; family reasons sole cause of sale; returns £480, increasing; profits above average; good house; rent £27; own property; price £275.

5.—LEICESTERSHIRE.—Genuine Cash Drug Stores; same hands 15 years; now called up; returns average £650; net profit £200; good house and Pharmacy; well stocked; one other Chemist; price £300 or valuation.

6.—LIVERPOOL.—Light Retail and Prescribing; no side lines; all ready money; returns under Manager £16 a week, increasing; corner double-fronted shop; good house; price £350.

7.—LONDON, N.—Genuine Cash Retail, with N.H.I.; retiring, same hands 24 years; returns £800; net profit over £250; handsome shop; bold corner position; can easily do £20 to £25 weekly; price £300, or best offer; easy payment arranged.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

MESSRS.

TOPLIS & HARDING

AUCTIONEERS, Established 1790
66 Cannon St., London, E.C.4

will SELL by AUCTION at the

LONDON COMMERCIAL SALE ROOMS,
On WEDNESDAY, SEPTEMBER 12, 1917,

Partly Without Reserve.

Aniline Dyes (about 100 lots)
Tartaric Acid Boracic Acid
Logwood Extract Sanders Wood
Beta-Naphthol Benzo-Naphthol

and about

480 Gal. Medium Hard Spirit Varnish

Also the following

SALVAGE

on behalf of Lloyd's Underwriters,

200 BALES CINNAMON

(about 8½ tons),

4 BALES SENNA

(about 14 cwt.), now lying in London.

Catalogues may be obtained upon application
at the Auctioneers' Offices, 66 Cannon Street,
London, E.C.4.

Salable Stocks of any description may be
included in these periodical Sales.

Following Sale: October 3.

Entries may now be made.

BATTAM & HEYWOOD

(ESTD. 1837)

CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS.

Balance Sheets Prepared. Books Audited.

3 DAVIES STREET, BERKELEY SQUARE, W.

Telephone: GERRARD 2169.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every
10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies
addressed to this Office, and forwarded on payment of an
additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in
no case be forwarded, the Box numbers being intended exclusively
for specific answers to particular advertisements. The Publisher
reserves the right to open and refuse to forward any communica-
tions received which he may consider contrary to this rule.

GRANTHAM, LINCOLNSHIRE.—To be Let or Sold, Chemist's
Shop, Residence, and Garden; freehold; immediate posses-
sion; owner leaving district; price £475, including Fixtures;
Stock optional; rent £30. Apply Henry Thompson & Sons,
Solicitors, Grantham.

GREAT YARMOUTH.—Genuine old-established Business; good
position; low rent on lease; well stocked; good trade all
the year round; returns £2,000, with every prospect of con-
siderable increase; price £1,400; easy terms to one taking early
control. Shearman, 156 King Street.

IRELAND.—The Medical Hall, 90 Main Street, Cavan, as going
concern; satisfactory reasons for disposing. Apply to J. J.
Cole, Nahillah Park, Belturbet, co. Cavan.

WEST OF ENGLAND.—For Disposal, a thriving Business;
Family Retail, Dispensing, and Photographic; returns
average £1,500. Apply "G." (73/19), Office of this Paper.

FOR Sale, high-class Chemist's Shop and Stock; special offer
for discharged soldiers who are in the Chemical and Drug
trade; 15 per cent. will be allowed off the amount of purchase.
Apply the French Drug Stores, 67 Mare Street, Hackney, N.E.

FOR immediate Disposal through ill-health, an old-established
Agricultural and Family Business in a good market town
in Lincolnshire; new front and modern fittings; returns about
£1,600, leaving excellent profit. Apply "Business," o/o Loft-
house & Saltmer, Ltd., Wholesale Druggists, Hull.

CHEMIST'S BUSINESS FOR SALE IN OBAN.

OFFERS are invited for that well-established WHOLESALE
and RETAIL CHEMIST'S BUSINESS carried on for the last
35 years by Mr. Samuel Lawrence at 101 George Street, Oban.

The business has an excellent connection throughout the whole
of the Western Highlands, and the annual turnover exceeds
£3,000 per annum. The stock on hand is in good condition.

For further particulars apply to the subscribers, or to Messrs.
L. & J. McLaren, W.S., 23 Rutland Street, Edinburgh, or Mr.
Parker S. Booth, Accountant to the Association of Manufacturing
Chemists, 32 Kimberley House, Holborn Viaduct, London, or
2 Bixteth Street, Liverpool, with any of whom offers must be
lodged forthwith.

1 Charlotte Square, Edinburgh,
16th August, 1917.

A. T. NIVEN & CO., C.A.

TO CHEMISTS.

OWING to the retirement from business of the Owner, there is now
for Sale the Stock-in-Trade and Goodwill of a high-class
Chemist and Druggist Business in a county town in the South
of Scotland; easy ingoing. Apply Jas. W. Whitelaw & Edgar,
Solicitors, Dumfries.

OWING to serious illness, Business to be Sold at nominal price;
splendid position prominent corner close to market street;
splendid opening for energetic man with small capital. "W."
2 Copenhagen Street, Islington, London, N.

THROUGH death, after 30 years' ownership, high-class Business
in best district of Kensington; returns under Manager £800
(previously £1,300); excellent position for increase; thoroughly
genuine; reasonable offer entertained. Apply 74/35, Office of
this Paper.

FOR SALE.

NATIONAL Cash Register (second-hand); must sell at once; best condition; cheap. Letters to F. Fishwick, 137 Jamaica Road, Bermondsey, S.E.

NATIONAL Cash Register; Total Adder; Detail Strip Printer; Key-operated; perfect condition; cost £45; accept £20 F.O.R. net cash. Kerr, Chemist, Clones.

75 GROSS Vaseline, Cheesborough, 1d. tins, salvage ex S.S. "Norwegian." What offers? McInroy, Chemist, 64 Brunswick Road, Liverpool.

4 OZ. 5 gr. B.P. Phenazone Tabs., 11s.; 5 oz. Phenazone Pulv., 17s.; 8 oz. Bismuth Subgall., 5s.; 1 lb. Menthol, 13s. 6d.; 10 lb. Arrowroot Opt., 6s. 6d.; 4 oz. Vanilline, 8s. 6d.; 6 oz. Sodii Iodide, 5s.; 1½ lb. Sodæ Cit., 4s. 10d.; 2 lb. Acid Cit. Crystals, 7s.; 2 lb. Iron Lactate, 3s.; 1½ lb. Pot. Permang., 21s.; 2 lb. Calci Hypophos., 7s.; 8 oz. Salol, 5s.; 1 gall. Ol. Morhuæ, 16s. 6d.; 4 oz. Iodine Resub., 3s. 10d.; 28 lb. Dextrine, 15s. "B," Chemist, 97 Borough High Street, S.E. 1.

6 WINCHESTERS Inf. Senegæ Conc., 1 to 7, 2s. 6d. lb.; 7 lb. Ext. Nucis, Vom. Liquid, 4s. 10d. lb.; 7 lb. Ext. Ergotæ Liquid, 5s. lb.; whole or part; carriage paid in London and district. John Noble, 17 Owens Row, E.C. 1.

BUSINESSES WANTED.

BUSINESS wanted in centre of shopping district; anywhere in England; return about £1,000 a year; state lowest cash price (approximately). Reply to C. P. Spedding, 2 Parker Street, Levenshulme, Manchester.

BUSINESS wanted; London or provincial town; returns £900 to £1,800. Full particulars in confidence, Harding (75/35), Office of this Paper.

WANTED, a good-class Chemist's Business, yielding a net yearly profit of at least £300; without N.H.I. preferred; references given and required. Full particulars in confidence to "Pharmakos" (75/17), Office of this Paper.

APPRENTICESHIPS.

APPRENTICE or Improver, an opening for, either gentleman or lady. For particulars apply to Mr. Thresh, Pharmacist, Buxton.

TO LET.

SHEPHERD'S BUSH.—Chemist and Druggist Shop with House to let, in best position of main road; £20 a week has been taken up to a short time back; rare chance for business man; low rent. Apply Messrs. Willmott, 65 Goldhawk Road, Shepherd's Bush.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

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RETAIL.

ABERDEEN.—Qualified Chemist (lady or gentleman) required to manage Branch. Full particulars and salary required to Joseph Milne, M.P.S., 33 Rosemount Viaduct, Aberdeen.

BIRMINGHAM.—Manager (qualified) required; quick Retail and Dispensing; ineligible or C3. State experience and salary required, Wilkins, 359 Birchfield Road, Perry Barr.

BIRMINGHAM.—Assistant; unqualified; accurate, smart, and obliging. Hedges, Chemists, Ltd., Dale End, Birmingham.

PARISH OF BERMONDSEY.

REQUIRED (for the period of the war), a properly qualified whole-time Dispenser of Medicines. Salary £180 per annum, rising £5 yearly to a maximum of £200 per annum. Forms of application (returnable by 22nd September, 1917) can be obtained from the undersigned by sending a stamped addressed foolscap envelope.

E. PITTS FENTON,

Clerk to the Guardians.

283 Tooley Street, S.E. 1,
1st September, 1917.

BRIGHTON.—Wanted, early in October, competent Assistant for high-class Retail and Dispensing business; ineligible for military service. Parris & Greening, 105 Church Road, Hove.

BRISTOL.—Junior, unqualified (outdoors), to keep up Stock, assist at Counter, and help with N.H.I. Dispensing; hours 9 a.m. to 8 p.m., Saturdays 9 p.m., half-holiday Wednesdays, no Sunday duty. Age, references, and salary required to Presley, 12 St. Augustine's Parade.

BROADSTAIRS.—A competent Assistant required; ineligible for military service; must be a reliable Dispenser; state age, height, salary, and full particulars. Julian Horrell, Chemist, Broadstairs.

CARDIFF.—Qualified Assistant required as temporary or permanent Manager. Duck & Son, Chemists, Cardiff.

CHELTENHAM.—Improver or Junior Assistant required for high-class business; easy berth and excellent experience. Nathl. Smith & Co., 373 High Street, Cheltenham.

CHESHIRE.—Good Assistant required for Light Cash Retail in country town; outdoors; hours 54 per week, excluding meal times; good salary to suitable gentleman; need not be registered if competent to take charge for a day occasionally. Photo, salary required, age, height, and particulars of experience to Young, Chemist, Nantwich.

DARTFORD, KENT.—Good opening for smart, capable lady Dispenser; must have had good experience. State salary required and when at liberty. Apply 126/122, Office of this Paper.

DOVER.—Wanted, a competent woman for National Insurance Dispensing and middle-class Retail in Dover; from the Midlands or North preferred. Forster, Chemist, Dover.

GREAT YARMOUTH.—Wanted, a young lady (Hall certificate) to act as Junior Dispenser to firm of Surgeons; must have had experience. Apply, with photo, stating terms, age, etc., to F. Stuart, c/o Messrs. Wylls, Wylls & Ley, 25 King Street, Great Yarmouth.

HULL.—Wanted, a qualified Assistant for light N.H.I. Dispensing and part assistance at Retail Counter; state salary and when disengaged; easy hours. Apply 74/29, Office of this Paper.

KENT.—Good opening for capable unqualified male Assistant; permanency, with progressive salary. "Kent" (126/121), Office of this Paper.

LANCS.—Wanted, qualified Chemist; good-class Mixed business; liberal salary to suitable man; interview; fare refunded. Apply 75/25, Office of this Paper.

RESULTS

OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK SEP. 1 1917

NATURE OF ADVT.	REPLIES
ASSISTANT	10
REPRESENTATIVE	9
DISPENSER	8
UNQUALIFIED	8
MANAGER	7



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

LIVERPOOL.—Qualified Manager for Branch; indigible. Apply, with full particulars, to "Opium," c/o Messrs. Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.

LIVERPOOL.—Assistant; elderly; qualified; easy hours; comfortable post; permanent. State salary, references, and photo if possible, to 74/27, Office of this Paper.

LONDON.—Wanted for a few hours daily, part-time Assistant; suit elderly qualified; Light Retail. Apply, with usual particulars, to 75/23, Office of this Paper.

LONDON.—Wanted, reliable and energetic Assistant; able to take charge; Light Retail and Dispensing. Please apply, with full particulars as to experience, age, and salary required, to 75/230, Office of this Paper.

LONDON.—First-class Manager required for high-class Pharmacy; applicants must produce undeniable references and be capable and energetic; proprietor willing to give liberal interest in the profits to anyone prepared to throw his whole interest into the management. Apply 126/120, Office of this Paper.

LONDON, E.C.—Wanted for good-class City business, Junior or Improver, or smart Youth with some experience; hours 8.30 to 6, Saturdays 1 o'clock, no Sunday duty. Grieve, 3 Queen Street, Cheapside, E.C.

LONDON, N.—Wanted, qualified Manager to live in house and take charge; good chance of progress. Please write and state terms to 76/25, Office of this Paper.

LONDON, N.W.—An Assistant required in good-class business; whole or part-time. Address, with usual particulars, Pharmacist, 38 Heath Street, Hampstead, N.W.

LONDON, N.W.—Wanted at once, capable Assistant (male); unqualified; quick and reliable Dispenser; ineligible for Army. Apply, with full particulars, salary required, etc., to W. R. Ames, High Street, St. John's Wood.

LONDON, S.W.—Messrs. Cooper, Son & Co., Ltd., require a Dispenser. Apply, stating full particulars, to Mr. E. J. Jenkins, 24 Sloane Street.

LONDON, S.W.—Outdoors, immediately, Assistant, lady or gentleman, qualified preferred, for Counter and Dispensing (no Insurance); near Pharmacy Schools. Send full particulars, experience, F. H. Glew, Chemist and Radiographer, 156 Clapham Road.

LONDON, S.W. 1.—A competent Assistant, ineligible for military service, in first-class Retail and Dispensing business by the end of September or earlier. Apply personally, or with full particulars, to "A. W.," c/o Alsop & Quiller, 137 Sloane Street, S.W. 1.

LONDON, S.W.—Assistant wanted, with good all-round experience, not eligible for the Army. Please state age, experience, references, salary required, and when disengaged (outdoors), to "P. C. A.," 189 Wandsworth Road, S.W.

LONDON, S.W.—Wanted, smart Assistant with good Counter experience; no Sunday or Bank Holiday duties. Full particulars to Manager, Drug Department, Francis & Son, Ltd., 448 Brixton Road, S.W.

LONDON, W.C.—Assistant wanted, accustomed to good-class Retail and Dispensing; qualified preferred; outdoors. Burden & Co., 41 Store Street, Bedford Square.

MAIDSTONE.—Young lady wanted, with some experience of Pharmacy, for a few hours' Clerical work daily, and helping at the Front Counter or Dispensing if necessary. Apply, with full particulars, to Corfe & Son, Chemists, Maidstone.

MANCHESTER.—Young lady, with some Counter and General experience, required for Chemist's establishment situate in working-class district; comfortable; permanency. "Manchester" 126/123, Office of this Paper.

MANCHESTER DISTRICT.—Qualified Manager required, also Junior Assistant (both outdoors). Full particulars of previous experience to T. & W. Woodruff, Chemists, Cheshire, Cheshire.

NEAR BIRMINGHAM.—Qualified Manager required for Light Retail and Dispensing business; good agreement, with interest in the profits, offered to a smart and energetic man. State age, whether married, salary required, and when at liberty, "Midland" (126/12), Office of this Paper.

NEWBURY.—Wanted, competent lady Dispenser (or ineligible male); personal interview preferred. Hickman & Metcalf, Pharmacists, Newbury.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd, Chemists, Portsmouth.

SOUTHAMPTON.—Manager for brisk Retail; good salary and commission; comfortable house; South of England. Apply Hodges, Chemist, Southampton.

SITTINGBOURNE.—Wanted, Locum or Manager for Dover; lady or gentleman; qualified. J. E. French, Hon. Sec., Kent Association of Pharmacists, Sittingbourne.

WISBECH.—Wanted, a reliable Assistant (outdoor) for good-class country business; small amount of N.H.I.; short hours; young lady and porter kept. F. Oldham, Chemist, Wisbech.

WORCESTER.—Dispenser with good experience required; also an energetic Assistant for Counter, etc. State age, height, references, salary required, etc., Anderson & Virgo, Chemists, Worcester.

WESTON-SUPER-MARE.—Qualified Manager for branch Dispensing business immediately; ineligible for Army; unfurnished rooms if required; permanency. Full particulars and salary required, Lewis Wing, Ltd., Chemists, Weston-super-Mare.

WEST RIDING (YORKS).—Qualified Manager required for business situate in a suburb of Leeds; good house attached; good agreement with liberal interest in the profits offered. "Leeds" (126/126), Office of this Paper.

YORKS (WEST RIDING).—Good opening presents itself for a smart, capable, unqualified male Assistant; one who has been rejected or is above military age preferred. "H. B." (126/125), Office of this Paper.

AN Assistant; unqualified; lady or gentleman; good Dispenser and Counter hand; outdoors. Usual particulars and salary asked, with photo if possible, to Mr. Coombes, Chemist, Great Missenden.

ARE you a first-class Assistant with plenty of push and go, possessing a thorough knowledge of Photography, Window-dressing, and Counter-dressing, a reliable Salesman, and capable Dispenser? If so, and you are looking for a permanency, write, giving fullest particulars as to experience, salary required, when disengaged, and, if possible, enclose photograph to "Reliable" (74/21), Office of this Paper.

ASSISTANT; outdoors; good experience Dispensing, Prescribing, and considerable Counter. Full particulars, salary, etc., Frost, Chemist, 143 High Street, Sutton, Surrey.

ASSISTANT.—Vacancy will occur shortly for experienced unqualified Assistant in medium-class Cash business; must be reliable Dispenser, tactful Counterman, under 50, and ineligible for Army; easy hours; light duties; good salary and prospects to right man. Age, height, references, etc., to "Chemist," 14 The Parade, Upper Tooting Road, S.W. 17.

ASSISTANT required; immediate vacancy; moderate hours. Write or call, Rouse & Co., 12 Wigmore Street, W.

DISPENSER; unqualified; gentleman ineligible for military service, or lady; good-class business situated in Midlands; easy hours, no Sunday or night duty. Applicants should state particulars of experience, age, and salary desired in first letter to 75/13, Office of this Paper.

MEDICAL DISPENSING.

DISPENSER-BOOKKEEPER (male or female) to Doctor; small town in Gloucestershire; previous experience preferred and for permanency; state qualifications; hours, 9-11 a.m., 2 p.m., 6-7.30 p.m., Sundays 10-11 a.m., 2 p.m.; salary 30s. a week and small temporary bonus. Apply, letter, H. Jenkins, 137 Willesden Lane, London, N.W. 6.

DRUGS.—Experienced Stockkeeper required at once; must have thorough knowledge of Patent Medicines and Sundries, Surgical Dressings and Sundries; ineligible or over age; position would suit unqualified Assistant with good Counter experience. Apply personally before twelve, or by letter, to Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W. 1.

JUNIOR Assistant; outdoors; hours 8 to 7, Thursdays 1 p.m. Saturdays 8 p.m. Age, references, and salary required, Clarkson Harker, 24 Horsemarket, Barnard Castle.

LADY Assistant required; Hall qualification; outdoors; short hours; one o'clock Saturdays, no Sunday duty. Apply Staff Superintendent, C.S.S.A., Ltd., 136 Queen Victoria Street, E.C. 4.

LADY Assistant; outdoors; Dispensing and assist at Counter occasionally; hours 9 to 7, Saturdays 8.30; tea provided. State age, height, experience, salary, and enclose photo if possible, G. T. W. Newsholme, Ltd., Chemists, 27 High Street, Sheffield.

LADY Assistant; reliable; commencing 35s. weekly. Particulars of experience to Mitchell, Chemist, Gt. nua.

LADY Dispenser for South Coast business; no Counter work. State previous experience and other particulars to "Saturn" (73/28), Office of this Paper.

LADY Dispenser wanted in good-class business; whole or part-time; 49 or 39 hours weekly; no Sunday duty. State age, experience, salary (outdoors), references, and when disengaged, H. Barnett, Chemist, Hythe, Kent.

MANAGER; qualified, experienced, and energetic; £3 10s. per week and house; share profits; over military age or ineligible; permanency. "London" (126/124), Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

PART-TIME DISPENSER.—Wanted, Dispenser (N.H.I.) for several evenings a week and Saturdays; either sex. Apply H. T. Hines, Chemist, High Street, Whitechapel, E. 1. (near Aldgate Station, Met.).

QUALIFIED lady Assistant required for Light Retail and Dispensing business in seaside town; 40 hours weekly and alternate Sunday duty (4 hours); good salary given. Full particulars in first letter to 73/15, Office of this Paper.

QUALIFIED Manager wanted immediately for good-class Dispensing, Veterinary, and Agricultural business (Wholesale and Retail); ineligible. State age, reference, and salary in first letter, Taylor Gibson & Co., 17 Bigg Market, Newcastle-on-Tyne.

RELIABLE, competent assistance required by Owner of old-established, good middle-class Business in London, main road, with a view to interest or succession; rare opportunity for good man to acquire a good thing; hours 9-8, Thursdays 1 o'clock, Saturdays 9 o'clock, no Sunday duty. Write full particulars re age, experience, commencing salary desired, 75/20, Office of this Paper.

REQUIRED, lady Dispenser; hours of work 8.45 to 6.30, 1 o'clock Saturdays, no Sunday duty. Write, stating full particulars, experience, qualification, and salary required, to L. J., Army and Navy Stores, 105, Victoria Street, S.W. 1.

SURGICAL Instrument Business Assistant for front shop. Address, stating age, wages expected, and duties accustomed to, Box "Surgical," Lee & Nightingale, Liverpool.

WANTED, Locum at once for three or four weeks; City hours; no Sunday duty. Apply, stating qualification and salary required, to Henry Lamplough, Ltd., 9a Old Broad Street, E.C. 2.

WANTED, a qualified Dispenser as Locum for three or four weeks from about the beginning of October; not to take charge, but must be an experienced Dispenser; salary £3 weekly; indoors. Apply, with particulars, to P. Stacey, Pharmacist, 31 High Street, Teddington, S.W.

WANTED, September 13 to 20, reliable Locum; references. Full particulars to 72/9, Office of this Paper.

WANTED, competent qualified Assistant; outdoors; lady or gentleman; if gentleman must be ineligible. Send full particulars, age, salary, etc., to Green, Chemist, Southborough, Tunbridge Wells.

WANTED, Dispenser; lady or gentleman; if the latter, one ineligible for military service; outdoors. Apply, stating full particulars as to age, qualifications, salary required, and references, to Goodman, Chemist, Banbury.

WANTED, lady or gentleman, fully qualified, for good-class Business; Counter and Dispensing. Write, stating salary, to, to Longman, Littlehampton.

WANTED, Locum for about a fortnight or three weeks for small business in the North; outdoors. State terms and full particulars to 76/16, Office of this Paper.

WARNEFORD GENERAL HOSPITAL, LEAMINGTON SPA.—Wanted, competent Dispenser (lady) for duration of war; board, residence, and laundry in hospital. Apply, stating age, qualifications, experience, and salary required to House Governor, marked "Dispenser."

£18 PER MONTH AND COMMISSION ON PROFITS.—Wanted, qualified Manager for high-class Store Pharmacy; South Coast; ineligible for Army; first-class business man; good Window-dresser; experienced in Photography; Organiser and salesman; exceptional opportunity to right man. Give full particulars, experience, age, height, when disengaged (details treated in strictest confidence), to "Manager" (74/23), Office of this Paper.

WHOLESALE.

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A LARGE CHEMICAL MANUFACTURING CONCERN, at present taking up the manufacture of PHARMACEUTICAL PRODUCTS and

PHOTOGRAPHIC CHEMICALS,

is open to appoint a

SALES MANAGER

for these departments.

Applicants should have some technical knowledge, wide experience of the trade, and should have filled some similar post with a good firm.

To a vigorous man with the right qualifications a good salary would be paid, and the financial prospects are excellent.

The applicant would be expected to take charge of the Advertising and the Sales propaganda.

State experience, age, and qualifications fully, in confidence, to 120/59, Office of this Paper.

LONDON.—Competent Dry Counter hand with good experience; ineligible for or retired from military service; wages 35s. Apply, stating full particulars, to 76/36, Office of this Paper.

ASSISTANT wanted for Tablet-making Department; knowledge of Galenicals useful. State salary and full particulars, Thompson & Capper, Manesty Buildings, College Lane, Liverpool.

FOREMAN required for Manufacturing Chemical Works (Government controlled), to supervise Labour, keep Records, etc. Write full particulars to "P. L., c/o Street's, 30 Cornhill, E.C. 3.

JUNIOR Chemist required for Analytical work in Laboratory of Manufacturing Chemists (Government controlled). Write, with full particulars, experience, etc., to "P. N., c/o Street's, 30 Cornhill, E.C. 3.

KEEN, well-educated business girl wanted by first-class Chemical Manufacturers (London). Qualifications: Some Chemical or Pharmaceutical experience, French, Arithmetic, Shorthand.

Position at first would be a junior one, but there are very exceptional prospects for a capable girl with initiative.

Apply 135/6, Office of this Paper.

LADY Clerk, age about 17, for Wholesale Druggists; good at figures; commencing salary £50 per annum. Full particulars to 72/29, Office of this Paper.

MAN or woman capable of taking charge small Laboratory manufacturing Toilet Preparations; must be able to control staff. Apply 123/16, Office of this Paper.

MANUFACTURING Chemist, with comprehensive technical knowledge of manufacturing Pharmaceutical Preparations, Galenicals, etc.; good position and liberal salary to the right man. Apply, giving full particulars, etc., to 124/59, Office of this Paper.

PILL DEPARTMENT (Manufacturing).—Provincial house requires the services of an experienced man. Apply 115/21, Office of this Paper.

REPRESENTATIVE wanted for leading Drug House; town journey; ineligible. Write, giving full particulars, to "T." (123/52), Office of this Paper.

STOREKEEPER required; good knowledge Chemicals and Drugs essential. Address, stating age, experience, and salary required, to "J., Hendon Works, Renters Avenue, Hendon.

WANTED, an active Assistant or Warehouseman for Wholesale; good salary. Apply Secretary, W. Bates & Co., Ltd., Southampton.

WANTED, Manager to take charge of Wholesale Packed Goods Department; to smart man with initiative permanency is offered. State qualifications, salary, etc., in confidence, to 75/27, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every
10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.]

RETAIL.

ADVERTISER, above military age, desires appointment as Manager or position of trust; accustomed to first-class Dispensing, Prescribing, and Retail; has also knowledge of Agricultural and Photographic work; West of England preferred. Apply 74/5, Office of this Paper.

ASSISTANT; 25; experienced Dispenser and Counter hand; good references; Army discharge; disengaged end of September. Apply 73/30, Office of this Paper.

ASSISTANT Dispenser (discharged from Army), 3½ years' Shop or 15 months' Hospital experience, seeks situation; good recommendation. Apply 72/33, Office of this Paper.

ASSISTANT or Improver in Chemist's business in London; South-West district preferred; some Dispensing experience. Address Miss Eveline Sharpe, 64 Glenalla Road, Llanelli.

ASSISTANT; disengaged; age 59; highest references. Apply 74/22, Office of this Paper.

ASSISTANT Manager, locum, unregistered, single, 20 years' first-class London and provincial experience, disengaged shortly. State salary, "Chemicus," Luda House, High Street, Skegness.

ASSISTANT or manage Branch; unqualified; ineligible; sound experience; married. "Chemicus," 1 Lowwood Grove, Birkenhead.

ASSISTANT (discharged from Army) desires post; Manchester or Liverpool preferred; wide experience; capable of taking charge. Apply 75/16, Office of this Paper.

CHARGE of Dispensary wanted by lady; experienced; well recommended; Apothecaries' Hall; free September 21; has had complete charge General Hospital, also Doctor's and N.H.I. Miss Redfern, 6 Arundel Gardens, London, W.

CHEMIST; 28; rejected; married; 11 years' experience, 6 years last reference; salary 3 guineas; Bookkeeping, Retail, Photography, Dispenser, and Prescriber; South or South-West Coast. Sims, 70 Eridge Road, Thornton Heath, Surrey.

DISCHARGED soldier, unqualified, 24, married, first-class Dispensing experience, seeks position of trust; preferably to live on premises. Apply 74/33, Office of this Paper.

DISENGAGED shortly, Locum; reasonable terms; good references and experience. Apply 125/67, Office of this Paper.

DISPENSER, lady, unqualified, requires post; Doctor or Chemist; good experience; thoroughly reliable. Apply 125/68, Office of this Paper.

DISPENSER; qualified; 43; ineligible; disengaged. Apply 74/39, Office of this Paper.

DISPENSER, qualified, offers honorary services to charitable Institution, Dispensary, for some spare time in evenings; easy reach of S.E. Apply 76/30, Office of this Paper.

EXPERIENCED elderly Locum (unregistered) disengaged September 13; light engagement; abstainer; excellent references. "Terms," 19 Chapel Street, Uxbridge.

HOSPITAL Dispenser; Locum; qualified. Irving, 66 Rowfant Road, Balham, S.W. 17.

LADY Dispenser (Hall), some Hospital experience, desires post; if with Chemist part-time or short hours; in or near London preferred. M. Pole, 61 Plaistow Lane, Bromley, Kent.

LADY Minor desires management of small Retail branch. Apply 72/13, Office of this Paper.

LADY Dispenser (Hall qualification) requires post as Assistant to Hospital or Chemist; London district; disengaged September 10. Apply 74/32, Office of this Paper.

LADY Dispenser (Hall) seeks post. Miss Demarquet, 11 Atherfold Road, S.W. 9.

LADY Dispenser (Hall certificate) requires post London; mornings; Chemist's Shop, Doctor, or Institution. Miss O. Davidson, 89 Westbourne Terrace, W. 2.

LADY Dispenser (Hall) requires post in London; Hampstead preferred; Hospital, Doctor, or Chemist. Dispenser, 22 Cheriton Road, Winchester, Hants.

LADY Dispenser (Hall certificate) requires post; Hospital or Institution preferred; light work; quick and accurate; excellent references. Apply 75/32, Office of this Paper.

LADY Dispenser (Hall), Chemist and Institution experience, desires post; disengaged September 17. "H.," 44 Hawk Road, Balham, S.W. 17.

LADY Dispenser, qualified, experienced, desires post, locum or permanent, with Doctor or Institution. J. Ross, 111 Truro Road, Wood Green, N.

LANDRINDOD.—Unqualified lady Assistant, good Dispenser and Counter experience, desires post. Hurst, Ravenscourt, Landrindod.

LOCUM OR PERMANENT.—Lady Dispenser (Hall qualification), experienced, good references, disengaged October; Institution or Doctor preferred. Apply 73/25, Office of this Paper.

LOCUM or Manager, unqualified, rejected September 4, disengaged September 16; London only. Locum, 94 Richmond Road, Barnsbury, N.; after Saturday, 3 London Road, Tooting Junction, S.W.

LOCUM or Permanency; qualified; 48; good references. "Statim," 63 Runcorn Street, Leeds.

LOCUM; qualified; 30 years' first-class London and provincial experience; disengaged September 20; excellent references. Parker, 22 Muster's Road, Nottingham.

M.P.S., B1, experienced, seeks responsible position as Manager of Retail and N.H.I. Dispensing business; must be a position that secures exemption. "Aspirin" (71/15), Office of this Paper.

MAJOR, C3, 27, as Senior Assistant in high-class Retail; good Dispensing experience; Midlands preferred. Apply 75/29, Office of this Paper.

MANAGER; qualified; ineligible; 27 years' West-End experience. Apply 69/24, Office of this Paper.

MANAGER; Major; provincial, London, Continental, Far Eastern experience (last position 12 years); 41; married; entertain agency Far East. Apply 75/36, Office of this Paper.

PART-TIME; daily from 5.30, all day Saturdays, Sunday duty; qualified, competent, responsible Manager; 35; ineligible; disengaged October 1. "Richardson," 26 Boss Street, S.E. 1.

QUALIFIED, 37, exempt, disengaged September 24; London or near; state hours. "Radium" (75/20), Office of this Paper.

QUALIFIED Lady Dispenser desires post, Doctor or Hospital; Midlands or West of England preferred; twelve months' experience. Miss Millard, at 2 Stanley Terrace, Taunton.

QUALIFIED; experienced; 45; free daily 6 p.m., Saturdays 2 p.m.; good Institutional experience; trade knowledge; recommended; temporary employment; S.E. preferred. "Celebrity" (70/16), Office of this Paper.

QUALIFIED, 49, first-class experience and references, desires permanent post as Manager in good-class business; succession or interest entertained; free October 1. Apply 74/31, Office of this Paper.

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QUALIFIED, 33, married, Army discharge, wishes Managership in Scotland; thoroughly competent; £4 10s. weekly; disengaged beginning October. Apply Young, o/o Johnston, 154 Cook Street, Broughty Ferry.

QUALIFIED Lady Dispenser; free October; present post with Doctor three years; near Kent preferred; daughter of medical man. Apply 75/31, Office of this Paper.

QUALIFIED; age 44; disengaged September 10; locum or permanency. Pharmacist, 5 Claverton Street, S.W.

QUALIFIED; fully experienced; disengaged when required; good salary essential. Please forward all details to "Statim" (5/37), Office of this Paper.

THOROUGHLY experienced qualified lady Dispenser; disengaged October; Doctor or Hospital; no Chemists. Apply 75/30, Office of this Paper.

UNQUALIFIED; Counter, Photographic; part-time, 9 a.m. to 5 p.m.; London preferred. "Aspirin," 272 Merton Road, Wandsworth, S.W. 18.

YOUNG lady, 17, desires situation as Improver; Cardiff or near preferred. Evans, 158 City Road, Cardiff.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communication received which he may consider contrary to this rule.

CLERK, Bookkeeper, or Assistant to Chemist in Wholesale Laboratory; 27 years' experience in technical side of the trade and General Office work. Apply 72/28, Office of this Paper.

ADY (25), Graduate Northern University, 12 months' experience Medical Representative, desires position on staff of pharmaceutical firm (organising, advertising, etc.); possesses real ability, initiative, and enterprise; at present in London. Apply 34, Office of this Paper.

MANAGER, 46, desires berth in first-class House, Patent Department; thorough knowledge of same; perfect control staff, both sexes; life experience. Apply 76/24, Office of this Paper.

PERFUMERY.—Advertiser, military exemption, seeks berth with good London firm; can make full line Perfumes, Shampoos, Dentifrices, Shaving Creams, etc.; capable Buyer; excellent references. Apply "Neroline" (76/35), Office of this Paper.

TRAVELLER (Chemist's), calling also on Hairdressers and Stores with Toilet Goods, Eastern and South-East counties, open for additional line; commission and salary or expenses. Apply 74/12, Office of this Paper.

MISCELLANEOUS.

SHOWCASES AND FITTINGS.—Handsome Oak Dispensing Screen and Counter, large Central Mirror, and Mirror-lined Showcases, £20 complete; 10' Mahogany and Plate-glass Serving Counter, £14 10s.; elegant Perfumery and Tooth-brush Case combined, unique design, £7 10s. Hundreds of other bargains. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

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8/6

3
Years
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D. W. BULL,

4 Churchill Road, Homerton, E. 8.

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10 HOP EXCHANGE, Southwark Street, S.E.

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PERMANGANATE of Potash; 28 lb., 14s. lb., or 15s. small quantity. Apply 126/10, Office of this Paper.

FOR Sale, 2 lb. Potass. Permang. Opt., 27s.; 1 lb. Potass. Caustic B.P. Sticks, 12s.; 1 lb. Potass. Ferriocyanide (Rubr), 15s.; 5 lb. Acid Citric Xtl, 15s.; drms. Atropin Sulph., 19s. 6d.; 1 oz. Butyl Chloral Hydr., 6s. 6d.; 2 lb. Pulv. Cambogia Elect., 19s. 6d. Atkins, Pharmacist, Todmorden.

WHAT Offers? 1 lb. bot. Potassa Caustica B.P. Sticks (B.D.E.), Metol Hauff 7 drms. 1 x 100's, Antipyrine Tabloids gr. v. 1 x 100's, 2 x 25's, Sulphonal Tabloids gr. v. 9 x 25's, Phenacetin Tablets gr. v. 4 x 100's, Phenacetin and Caffeine Tablets, 1/2 oz. Theocin Soda Acetate "Bayer," 2 oz. Thymol. Halliday, 288 Rochdale Road, Oldham.

SHOP FITTINGS.

FOR Sale, 6 Celluloid Show-pieces. R. Lamb, 123 West End Lane, London.

MISCELLANEOUS.

FOR Sale, 3 gross small Lamp Glasses for Gem Burners. What offers? Atkins, Pharmacist, Halifax Road, Todmorden.

WANTED.

THREE Boxes Atophan Tablets. Apply 72/25, Office of this Paper.

WANTED, acetate of soda crystals. Quantity and cash price. Chambers, Arnold, Nottingham.

SOME 2 gallon Pear-shaped Carboys; cheap. Young, 52 Orchard Street, Weston-super-Mare, Somerset.

WANTED, Window Carboys and Stands; state size and price. McArthur, Chemist, Kilmacohn, Scotland.

WANTED, a few tubes of Iodiglidine; good price given. W. Hucklebridge, 116 Ebury Street, London, S.W. 1.

WANTED, Cotton Wool, Gauzes, Saccharine Tabs.; cash or exchange Sod. Sal. "Aspirin," Moorhouse, Southport.

TABLET Machines wanted, hand or power, for small Tablets; single or multiple punch. State price and full particulars to 124/16, Office of this Paper.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gover, Bookseller, 41 Veltre Road, Clapham, S.W.

FRONT Counter; small; genuine old, carved, or otherwise ornamental; oak in preference. Send details to W. Martindale, 10 New Cavendish Street, London, W.



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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"C. & D. DIARY," 1918.—Our annual *Diary*, which this year will be somewhat different in form, has, in consequence of war conditions, to go to press somewhat early, and the work of revision is already well advanced. We shall reserve space for the registration of formulæ for "known, admitted, and approved" remedies. Our *Diary* was the first book of the kind which the Revenue authorities accepted as an approved book of reference. The space reserved in the 1918 *Diary* for such formulæ will be limited, so that true copies of them, with doses or other directions for use, should be sent to the Editor, C. & D., 42 Cannon Street, London, E.C. 4, as promptly as possible.

THE LATEST COFFEE-SUBSTITUTE recommended in Germany is composed of pressed and roasted grape-skins, the smell and taste of which are claimed by a Dresden chemist to have much resemblance to those of real coffee.

CAUSE OF PYORRHOEA.—The primary factor in the causation of pyorrhœa is dietetic, but there are contributory factors. Perhaps the most flagrant example is to be found in the popular carbolie dentifrices, some of which are so pungent as almost to bring tears into one's eyes. Such powerful irritants cannot be used day after day without seriously affecting the oral tissues. Their discontinuance in favour of milder preparations has in many of my patients been speedily followed by marked improvement in the health of the mouth.—J. T. Hall, L.D.S.

European War News.

Import and Export Notices.

AUSTRALIA.—The Australian High Commissioner has issued a circular stating that the importation of bay rum, perfumed spirits, and confectionery is prohibited. The importation of potable spirits for 1917-18 is restricted to 70 per cent. of the previous year's importation. Spirits in transit at the date of the prohibition (which was announced in London on August 13) are to count as part of the 70 per cent. allowed.

FRANCE.—The Board of Trade notify that, in pursuance of an agreement recently arrived at with the French Government, arrangements are being made, and will come into effect as from September 15, for the issue of licences for the import from France into the United Kingdom of goods of French origin by the Board of Trade Office in Paris, No. 10 Place Edouard VII. The arrangement for the issue of licences in Paris will not apply, among other goods, to spirits. It has also been agreed between the two Governments that arrangements shall be made for licences in respect of imports from the United Kingdom into France of goods of British origin, other than those mentioned below, to be issued by the French Customs Office in London at Bank Buildings, Kingsway, W.C. 2, upon application by the exporter in this country. A further announcement will be made as soon as the necessary arrangements have been completed. The French Customs Office in London will not, however, grant licences in respect of soap, candles, animal and vegetable oils and fats, stearic and oleic acids. Applications in respect of these articles, which will only be admitted up to limited quantities based on the average imports in 1914-16, should be addressed by the importer in France to the competent French authorities, and information on the subject can be obtained by British exporters from the Board of Trade Office in Paris at the address stated above. The present French régime in regard to spirits is continued.

UNITED STATES.—Upon the recommendation of the Exports Council the following chemicals are interpreted as coming within the meaning of the term "explosives" in the President's proclamation of July 9: Ether, alcohol, sulphuric acid and its salts, acetone, nitric acid and its salts, derivatives of benzol, phenol (carbolic acid) and its derivatives, derivatives of toluol, mercury and its salts, ammonia and its salts, glycerin, potash and its salts, and all cyanides.

Coal-tar Products Control.

The Minister of Munitions has issued orders under the Defence of the Realm Regulations prohibiting, as from October 1, 1917, the supply, or the acceptance or attempt to obtain delivery, of any crude benzol, crude naphtha, or light oils containing recoverable quantities of benzol or toluol, except by licence or under a contract in writing for the delivery of such articles existing on August 29. All persons engaged in producing, treating, distributing, storing, or dealing in crude benzol, crude naphtha, or light oils, or in any business in which they, or any of them, are used, shall make all such returns with regard to their businesses as may be required by the Minister of Munitions. "Crude benzol" and "crude naphtha" mean crude benzol and crude naphtha obtained by distillation of coal tar or extracted from coal gas, including benzolised wash-oil before separation of the crude benzol. "Light oils" mean light oils obtained by the distillation of coal tar. All applications should be addressed to the Director of Raw Materials Supply, Ministry of Munitions, Department of Explosives Supply, Storey's Gate, Westminster, S.W. 1.

Official Control of Lard.

An Order in Council, dated August 29, has been issued prohibiting, among other foodstuffs, the importation into the United Kingdom of lard (other than neutral lard) except under Board of Trade licence. Complementary to this the Food Controller has also issued an Order, dated August 30, fixing the following wholesale maximum prices:

	Per cwt.
	s. d.
Scotch bladders	ex factory 153 0
Irish bladders (16/30s.)	f.o.b. 148 0
American pails	ex port 125 3
" boxes	" 124 0
" tierces	" 124 0
" (prime steam)	" 122 0

These prices are subject to cash in seven days, less 2d. in the pound discount, or cash in one month, less 1d. in the pound discount. The Order intimates that no lard on

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or after the above date shall be sold by the importer, manufacturer, or curer thereof at prices exceeding the above maximum.

Commercial Intelligence.

A joint memorandum by the Board of Trade and the Foreign Office has been published dealing with the Government's scheme for an enlarged and more efficient Commercial Intelligence Department to foster trade after the war. Under the new scheme there will be a constant interchange of staff between the Department and both the Foreign Office and the Board of Trade, so that the members of the two latter may be thoroughly acquainted with the work. The Department will also draw *personnel* from the Commercial Attaché and Consular Services, and from men of business experience outside, and it will be assisted by an Advisory Committee of business men. The main object of the reconstruction is the collection and diffusion of commercial intelligence for the benefit of British trade, the demands for which, the Board of Trade state, are likely to be very much greater than in the past. In an appendix to the memorandum a Foreign Office Committee have defined the main principle which should underlie the new commercial policy of this country. "We are now committed," they say, "to a national trade policy which will enter largely into the conduct of our foreign relations, and may dominate them."

Personalia.

MR. JOHN HOWARD UMNEY, only son of Mr. J. C. Umney, chairman of Wright, Layman & Umney, Ltd., has received a commission in the Royal Flying Corps.

MR. CUBITT RICHMOND, son of Councillor A. E. Richmond, chemist and druggist, St. Peter's Road, Great Yarmouth, has recently been gazetted to a second-lieutenancy, and is home on leave from the Western Front.

SECOND-LIEUTENANT E. BRYANT CORRY, who has qualified as a fighting pilot in the R.F.C., has left for the Front. Second-Lieutenant Corry is the son of Mr. Edward Corry, chemist and druggist, Fordsburg, Transvaal.

LIEUTENANT HILL, now serving with his regiment in France, has been promoted from second- to first-lieutenant. At the outbreak of war he was an apprentice with Mr. W. H. Cook, chemist and druggist (Ballard & Co., Faringdon, Berks).

MR. PERCIVAL PROCTOR, apprentice with Mr. W. H. Cook, chemist and druggist (Ballard & Co., Faringdon, Berks), recently passed the Entrance examination for Army Cadets for Quetta (India) and Sandhurst, and also qualified for Woolwich. He expects to proceed to Quetta shortly.

SECOND-LIEUTENANT FELIX W. WIGGIN, London Regiment, son of Mr. J. C. Wiggins, Ph.C., St. Matthew's, Ipswich, has been awarded the Military Cross for conspicuous gallantry and devotion to duty. Second-Lieutenant Wiggins enlisted in September 1914, was invalided home from Gallipoli, and was given his commission last year.

CORPORAL FREDERICK MUNRO, Royal West Kent Regiment, has been awarded the Military Medal. Corporal Munro, who is a son of Mr. J. M. Munro, Ph.C., of Munro & Co., Lewisham, and Lyle & Lyle, Ladywell Road, London, S.E., went out with the first Expeditionary Force, and was at Mons and in the battle of the Somme. An elder brother is in the Norfolk Regiment.

SECOND-LIEUTENANT WILLIAM FEATHERSTONE, Royal Field Artillery, has been awarded the Military Cross. He is the younger son of Dr. W. B. Featherstone, Erdington, and a grandson of the late Mr. W. B. Featherstone, F.C.S., who for many years was in the laboratory of Southall Brothers & Barclay, Ltd. Second-Lieutenant Featherstone received his commission after training in the O.T.C., in December 1915, and has since been gassed and wounded. The gallant deed for which his award is made is the extinction of a fire caused by a German shell, which would have exploded shells in gun-pits. His elder brother, a lieutenant in the R.A.M.C., was at one time resident medical officer in the Birmingham General Hospital.

FLIGHT-LIEUTENANT HENRY McCLELLAND, R.N.A.S., son-in-law of Mr. J. W. Butterfield, chemist and druggist, Market Street, Darwen, has been awarded the Distinguished Service Cross for an act of gallantry officially described as follows: "In recognition of his services on the night of July 9, 1917, when a successful attack was carried out against the Turkish-German fleet lying off Constantinople. When the *Göeben*, surrounded by warships (including submarines), had been located, the attack was made from a height of 800 feet. Direct hits were obtained on the *Göeben* and on the other enemy ships near her. Big explosions took place on board them, followed by a heavy conflagration. The War Office at Constantinople was also attacked and a direct hit obtained."

Military Tribunals' Decisions.

SINCE OUR LAST ISSUE the following decisions have been notified:

ASHTON-UNDER-LYNE.—The case of Mr. Stanley Buckley, chemist's assistant, was adjourned to December 31 to enable him to sit for an examination.

ENFIELD.—Mr. John Lawson Morrison, chemist and druggist, Ponder's End, appealed on medical grounds for the withdrawal of the Volunteers condition in his exemption certificate, and was directed to apply again on its expiration in a month's time.

HEREFORD.—Mr. W. H. Preece, dispenser at Hereford Dispensary, has been exempted until December 31.

LAMBETH.—C. A. Blatchford & Sons, artificial-limb manufacturers, Clapham Road, withdrew their appeal for Mr. W. A. Blatchford in consequence of having obtained a protective certificate from the Ministry of Munitions. The Tribunal granted leave to make a fresh application in the event of the withdrawal of the certificate and the receipt of a calling-up notice.

LEWISHAM.—Conditional exemption till December 1, subject to service in the V.T.C., was granted to Messrs. E. E. Grimwade, 23 Montpelier Vale, E. Richardson, 369 Brockley Road, and R. J. H. Weatherill, 73 Springbank Road, London, S.E., chemists and druggists. The Military Representative stated that he had referred all the pharmacists' cases in the borough to the two Advisory Committees.

NARBETH (PEM.).—Mr. George Rowe, chemist and druggist, High Street, applied for conditional exemption. It was stated that he has been in business in the district for many years. The case was adjourned.

NEWCASTLE-UNDER-LYME.—Three months' exemption was granted to the qualified dispenser of a local pharmacist. During the proceedings Alderman C. J. Wain, Ph.C., urged that dispensers are badly wanted.

ROMFORD.—Mr. Thomas England, chemist and druggist, High Street, applied for further exemption for Mr. Ernest Cox, apprentice. Six weeks' conditional exemption was granted.

SHEFFIELD.—Mr. Lesser, assistant with Eardley & Furnival, chemists, at their Broomhill branch, has, after being some time on the substitution-list, been granted conditional exemption on the recommendation of the Joint Committee.

SHOREDITCH.—The following managers and dispensers were granted six months' exemption: Messrs. W. J. Owen, pharmacist (Bewells, Ltd., 65 New North Road); J. C. May (G. Pasco & Son, 57 Hackney Road); T. M. Fiddes, pharmacist (S. Briggs, 197 Hoxton Street); W. Morton (A. P. Barnard & Son, 309 Hackney Road); W. R. Larking (Royal Chest Hospital, City Road).—The case of Mr. T. R. Lorenz, pharmacist, manager for Squire & Co., 78 East Road, was adjourned.—The appeal of Mr. H. Mills, chemist's shop-fitter, for A. E. Baylis, a french polisher, was refused, although the contention was put forward that chemists' shop-fitting is of national importance.

STOURBRIDGE.—Mr. S. Tooby, departmental manager for Cooke, Ltd., chemists, 154 High Street, was granted further exemption to December 31.—Mr. G. S. Simpkins, pharmacist, Iligh Street, appealed for Mr. Jesse Chance, an assistant (see *C. & D.*, July 28, p. 47), and stated that five of his male employés had been replaced by ladies and boys. A substitution order was made.

SUTTON-IN-ASHFIELD.—Mr. John Stanley, chemist and druggist, Outram Street, appealed for his son, Mr. J. B. Stanley, chemist and druggist, and explained that his own time is taken up with post-office work, and that he has had to close one shop. Six months' exemption was granted.

WANDSWORTH.—Mr. C. H. Chapman (Chapman's Cash Chemists, Ltd., Cavendish Road, Balham, London, S.W.), in appealing for exemption, said he was interested in two businesses. His manager, Mr. Milne, was a qualified man, but could not carry on the business alone. Three months' exemption was granted.—The Tribunal was occupied for some time in considering applications for the renewal of exemptions to chemists, dispensers, and chemists' assistants. No exemptions were withdrawn, but it was notified that one applicant, Mr. G. H. Lockyer, had joined the Army since his appeal was lodged. Three months' exemption was granted to Messrs. J. Dewhurst, J. Milne, W. J. Farr, G. C. Pine, J. A. Burt, W. C. Harris, C. A. Hopkins, J. E. Goodall, C. Harrison, A. Kilbey, W. R. Robertson, E. Skues, and T. Cottman.—Mr. E. W. Hobbs, artificial-limb maker, Balham, applied for exemption for himself and for a mechanical draughtsman. He stated that if he lost the draughtsman his output would be reduced by one-half. Three months' exemption was granted in each case.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Birmingham.

That rushlights and candles have been made in Dudley for 300 years was elicited in a Tribunal case heard on August 29.

C. F. Palmer & Co., Ltd., referring to the note which appeared in this column last week, inform us that the lease of their Temple Row premises had expired, and the removal is to more convenient premises at 49 Cherry Street, four doors from Temple Row.

Mr. Richard Threlfall, F.R.S., whose name was in the first list of Knights Commanders of the Order of the British Empire, is a member of the advisory council for industrial and scientific research, and a voluminous author on chemistry, physics, etc. He is a resident of Edgbaston.

A meeting of the Birmingham Chemists' Field Ambulance (Volunteer) Corps will be held at the Midland Institute on September 11, at 8.30, when, it is hoped, Sir Thomas Barclay will preside. A lecture will be given by Mr. Elliott, Ph.C., F.R.M.S., entitled "Some Biological Problems of the War," illustrated with photo-micrographs. A cordial invitation is extended to pharmacists, opticians, dentists, and members of allied vocations; ladies are also welcome. Names will be enrolled at the close of the meeting for the forthcoming winter classes in bacteriology, first-aid, etc.

Liverpool.

Ayrton, Saunders & Co., Ltd., have successfully introduced a lady traveller to the local drug-trade.

Mr. George Inman, chemist and druggist, Dale Street, has marked the return of summer weather by a window-display of Ayrton's lemonade tablets.

In the recent annual report of the medical officer of health (Dr. E. W. Hope) it is stated that two new licences for agricultural and horticultural poisons have been issued during the past year and twenty-four renewed.

Among the seventy-five samples of drugs mentioned in the latest annual report of the city analyst (Mr. W. H. Roberts) are, in addition to familiar oils, drugs, and galenicals, aperient lozenges. All, the report adds, were found to be genuine.

The lease of their London Road pharmacy having expired, Budden & Co. have transferred the business to new premises on the ground floor of the Hôtel St. George, Lime Street. The new branch is well lighted, artistically fitted, and admirably arranged.

In a pamphlet written by a Mr. Ritzema, Blackburn, it is stated that "ironmongers, furnisiers . . . inevitably need larger premises than chemists. And yet it is often the case that the retailer of small articles is making the larger profit." Is this true of pharmacists?

At the Liverpool Police Court on August 31, Harry Virtue Siddons was charged with obtaining 393*l.* by false pretences from the Army Paymaster and with forging notifications of disease. It was alleged that Siddons had no medical qualification, but that for a year he had been on the Birkenhead Army Medical Board, and for a time had acted as President of the Oldham Medical Board. The accused was remanded.

Manchester.

The Corporation officials who have the work of the distribution of sugar-cards in hand have been inundated with applications during the past few days. The scheme of distribution is, however, incomplete, and citizens will be informed later when to apply for cards.

A notice appears on the window of the pharmacy of G. A. Mallinson, Ltd., 112 Wilmslow Road, Withington, stating that in future the prescriptions and family recipes of the business of Mr. E. W. Terry, pharmacist, of 87 Wilmslow Road (nearly opposite), may be obtained from them. Mr. Terry's business has been sold.

Chemists and photographic dealers are experiencing difficulty with supplies of films, as Kodak, Ltd., in consequence of the restrictions placed upon the import of photographic material, have had to adopt a system of "rationing." The supplies of film to dealers are fixed in proportion to last year's orders. The price of film has also been slightly increased.

A fine lead has been given to manufacturers by the Tootal Broadhurst, Lee Co., Ltd., spinners and manu-

facturers, of Manchester, who in their annual report just issued state: "Assured of the importance of research and education in the struggle for the world's trade, your directors have decided to set aside 10,000*l.* a year for five years for this purpose."

Manchester chemists, like other business people, will have to make the best of the restricted lighting conditions. The Chairman of the Corporation Gas Committee, interviewed by a deputation of traders who asked for "more light" for shopping facilities, stated that as the result of a visit to several towns he was able to say that the lighting in Manchester is 100 per cent. better than in any of the towns visited.

Sheffield.

Mr. Thomas Mayor, Hillsborough, is seriously ill. He and Mr. Job Preston are the only two local chemists who were in business before 1868.

The University has opened a department specially for new glass-research work. It is fitted with all the latest devices, including special furnaces for experimental work. Dr. Turner is the director.

Photographic sales have been greatly checked by an order requiring a police permit (in practice almost unprocurable) for the use of cameras in the city. The order has just been withdrawn, except in the works districts.

The Order issued under the Venereal Disease Act in the "London Gazette" of July 20 did not contain the name of Sheffield in the list of scheduled places; but arrangements have been made with several institutions for treatment of venereal diseases.

Captain A. Larking, Secretary of the Early-closing Association, has approached the Secretary of the Pharmaceutical and Chemical Society asking for his co-operation at the Conference on early closing, to be held at the Town Hall, the Lord Mayor presiding.

The conference of delegates representing the N.E. Midland pricing area, which was held last week, was presided over by the Vice-President of the Pharmaceutical Society, supported by Messrs. Deakin, Hines, and Ridyard. The proceedings were private. An evening meeting was held under the chairmanship of Mr. Deakin, who made a great personal "hit."

The first general meeting of the newly formed National Association of Industrial Chemists was held on September 1 in the Mappin Hall, under the presidency of Mr. A. C. J. Charlier, for the purpose of defining its policy and confirming the draft of rules. It was stated that the members already enrolled represent fourteen chemical industries in twenty-two different centres. The Chairman predicted that the movement would have an important influence in the industrial world.

Miscellaneous.

THE RAMSAY MEMORIAL FUND now amounts to 21,428*l.* 11*s.* 6*d.*

AIR-RAID.—During the air-raid on London at midnight, September 4, a chemist's shop was much damaged at a spot where other shops shared the same fate.

LIGHTS AFTER HOURS.—Mr. John Wildin, 49 Lordsmill Street, Chesterfield, dispenser to the Chesterfield Medical Association, was last week fined 10*s.* for failing to screen lights.

OPIMUM REGULATION.—For being in possession of opium prepared for smoking a Chinaman was at the Tower Bridge Police Court on August 31 fined 20*l.* and ordered to be deported.

POISON-LICENCE.—Mr. C. T. Wigham, grocer, 6 and 8 Church Street, Tamworth, has applied to the Staffordshire County Council for a licence to sell agricultural and horticultural poisons.

ATTEMPTED SUICIDE.—At Hull Police Court on September 3, Charles Killington (62), described as a druggist, was remanded for a week on a charge of attempting to commit suicide with zinc sulphate.

GENERAL MEDICAL COUNCIL.—There will be no election this year of direct representatives on the General Medical Council, as the Parliamentary and Local Elections Act, 1917, has been extended to that body by Order in Council.

MAINTENANCE ORDER CASE.—At Doncaster, recently, Herbert Smith, described as a chemist, was committed to prison as a "rogue and a vagabond" for the non-payment of a maintenance order towards the support of his wife and three children.

BREAD-IMPROVER.—Several Grimsby bakers were on August 27 fined 1*s.* each, under the Sale of Food and Drugs Acts, for selling bread contaminated with calcium sulphate. The calcium sulphate was stated to have been introduced

into the bread in the form of "bread-improver," which the evidence showed to be calcium acid phosphate.

EXTENDING PREMISES.—At the meeting of the Coulsdon and Purley Urban District Council on August 30, the plans were approved for the extension of the workshops of the Electro Leather Industries (Dr. L. A. Groth), Brighton Road, Coulsdon. A new process of leather electro-tanning and sterilising is carried out at the works.

THE USE OF HEROIN.—At the Old Bailey, London, E.C., a woman named Platt, who pleaded guilty to jewellery thefts, was bound over in two sureties and directed to pay part of the costs of the prosecution. She was stated to have been irresponsible for her actions at the time the offences were committed owing to the use of heroin in large quantities. (See *C. & D.*, August 4, p. 35.)

LEICESTER MUNICIPAL TECHNICAL SCHOOL.—The prospectus of this institution for its coming year includes features of interest to beginners in pharmacy. The full three-years' course covers the syllabus of the Minor examination, and the fees are low. There are annually, in addition, twenty scholarships offered by the Borough authorities, and three prizes presented by the Leicester and Leicestershire Chemists' Association to their apprentices. There is a special equipment for pharmacy students: in this department experience may suggest a slight revision of the published time-table.

HERB-DRYING INDUSTRY.—Members of the Ipswich Scientific Society visited on September 1 the herb drying and packing establishment recently set up at Blakenham Mill by the Eastern Counties Herb Growers' Co-operative Association, Ltd. General Strachan, R.E., Hemingstone Hall, acted as guide and lecturer. It is stated that further organisation and support are needed before the enterprise can meet the large demands already made on its stock by manufacturing chemists. The bulk of the raw material is supplied by outside growers, but experiments in local cultivation are being made.

POISONINGS.—The following cases have been reported during the week. An adjourned inquest was held on August 30 at Melgh, co. Down, on the death of Mary Ann Boyle, who died on August 4. Mr. John McKee, R.D., manager of the branch shop of S. Connor & Sons, 19 Hill Street, Newry, produced the firm's sale-of-poisons book. On June 26 there was an entry, "Strychnine, 10 grains; rats: Mary A. Mallon, Ballintemple." The signature to that entry was similar to the deceased's handwriting, but her name was different. Mr. Joseph Harold Totton, analyst, said that in the portions of the organs which he used for the strychnine-test he found a quarter of a grain, which would indicate a dose of two grains. The jury found that the deceased committed suicide by taking strychnine during temporary insanity. A man named Paul died in the Royal Free Hospital, London, from veronal poisoning.

INSTITUTE OF CHEMISTRY.—Part III. of the "Proceedings" for 1917 of the Institute of Chemistry has been issued this week. The Glass Research Committee reports that six more formulae for glass have been devised, and it is stated that Professor H. L. Smith is conducting for the Committee, in the laboratories of the Pharmaceutical Society, an investigation on Canada balsam and other substances used in the cementing of lenses and prisms. Important alterations have been made in the regulations for admission of students, associates, and Fellows. The Council has provided that every candidate for the associateship shall have had at least four (instead of three) years' systematic training, or the equivalent, in chemistry, physics, and allied subjects; the number of examinations has been reduced by the elimination of the Intermediate, while providing means for safeguarding the possession of a satisfactory knowledge of general theoretical chemistry; and admission of candidates of good education and experience has been allowed for whose circumstances have not permitted their following strictly the normal curriculum. To encourage chemists engaged in industry to proceed to the associateship, the examination in chemical technology has been included as one of the branches of the examination for the associateship. Further, as a temporary measure, and in view of the fact that the war has prevented many candidates from presenting themselves for examination, the Council has made special provision for considering in such cases the election of associates without examination by the Institute.

THERE CAN BE NO QUESTION that we shall not be able to return again to the old *laissez-faire* methods and to small disconnected businesses rivalling each other, and all being defeated by German organised trade and science.—*Nature*.

Irish News.

Pharmaceutical Society of Ireland.

Intending new candidates for election to seats on the Council should note that nomination-papers must be in the Registrar's hands by 12 noon on September 17.

The following are the latest dates for lodging applications for the October examinations: Thursday, September 20, for the Preliminary examination; Tuesday, September 25, for the Registered Druggist examination; Wednesday, September 26, for the Pharmaceutical Licence examination; Monday, October 1, for the Pharmaceutical Assistant examination. Applications should be lodged with the Registrar by 11 A.M. on the respective dates.

Brevities.

Chemists in Cork are experiencing great difficulty in securing bottles for medicines.

Mr. J. Flanagan, Ph.C., Buttevant, has secured the contract for medicines to the Cork Sanatorium at Doneraile.

At Belfast Police Court, on August 31, Frederick Wells, alias Graves, was committed for trial on a charge of stealing a bicycle, the property of Mr. Horatio Todd, Ph.C., Hollywood Road.

The Cork Corporation notify the intention of making a closing order under the Shops Act, closing chemists' shops at 10 P.M. on weekdays and 10.30 P.M. on Saturdays. (See *C. & D.*, August 25, p. 36.)

The return of the medical officer of health for Cork shows that in every case where samples of drugs were taken in Cork under the Sale of Food and Drugs Act during the year they were up to standard.

Scottish News.

Brevities.

Mr. J. Carmichael, chemist and druggist, Leslie, was a prize-winner in bowling competitions for the Leslie Red Cross Week.

Something approaching a famine in *sp. vini meth.* is likely to be felt soon. Certain methylators intimate that until further notice they will be unable to supply. Rectified spirit is also extremely scarce.

Since September 1916 over 354,000 sphagnum-moss dressings have been despatched from the Scottish central depot to hospitals and casualty-clearing stations. Sacks are provided for voluntary workers, for whom a further appeal is made. Particulars can be obtained from Mr. J. B. Kidston, 176 Renfrew Street, Glasgow.

Dundee.

Corn syrup (liquid glucose) is being advertised locally at the rate of 7 lb. for 3s. 6d.

At a recent sitting of the Military Tribunal exemption was continued to Mr. A. Sharp, chemist's assistant, and withdrawn from Mr. D. K. Baxter, chemist's assistant.

A recipe for making sugar and syrup from turnips, potatoes, sugar-rye, barley, and oats is offered by an inventor for 2l. 2s. The process is described as simple, and the cost is estimated at from 1d. to 1½d. per lb.

Edinburgh.

The recently published recipe for making potato-flour (*C. & D.*, August 25, p. 51) appears, in a slightly abridged form, in the Edinburgh "Evening Dispatch."

Duncan, Flockhart & Co.'s warehouse will be closed on September 17 (a general holiday). The firm announce that "owing to contingent difficulties" they do not propose to apply for registration as sugar-distributors.

Glasgow.

Chance Bros. & Co., Ltd., Firhill, have introduced a comparatively new industry to Glasgow in the manufacture of plain-rolled and rough plate glass. This company, at its parent works in Birmingham, has developed the manufacture of globes of high-grade heat-resisting glass, formerly a monopoly of Austria and Germany.

A British Industries Fair is to be held in Glasgow from February 25 to March 9, 1918, in the new hall to be erected for the purpose near Kelvingrove. The area occupied by this building will be 100,000 sq. ft. As at the last Fair, there will be a Chemical Section, and only persons having trade interests will be admitted. Full particulars may be obtained from Mr. James M. Freer, 39 Bath Street, Glasgow.

French News.

(From the "C. & D." Paris Correspondent.)

BRITISH CHAMBER OF COMMERCE.—At a meeting of the British Chamber of Commerce recently, the Chairman drew attention to the growing importance of British Chambers of Commerce and to the fact that, after the official trade machinery has been reorganised, the Chambers will enter into closer relations with the British Government. He suggested that, in these circumstances, it would be desirable that British Chambers in general should follow the example of the Paris Chamber and restrict their membership to firms and individuals of British nationality.

GREETINGS FROM RUSSIA.—M. Blumenthal, Petrograd, the Russian delegate at the International Pharmaceutical Congress, addressed the following telegram to his French *confrères*:

"At the dawn of liberty the Russian pharmacists address their fraternal salutation to their comrades in friendly France."

The French pharmacists (represented by the General Association) telegraphed in reply:

"The French pharmacists thank the Russian pharmacists for their kind expression of regard, and salute free Russia, united to France for the welfare of humanity."

SCHOOL OF PHARMACY.—Since its erection in 1865, the Chair of Organic Chemistry at the College of France has always been occupied by a professor of the Paris School of Pharmacy—by Berthelot in 1865-1908, by his pupil and collaborator Jungfleisch until his death in 1916. The news of the nomination of Professor Charles Mourcu to the vacancy has accordingly caused much satisfaction in pharmaceutical circles. The new occupant is Professor of Chemical Pharmacy at the School, member of the Institute, of the Academy of Medicine, and of the permanent Codex Committee, and is fifty-three years of age.

SOCIETY OF PHARMACY.—Felicitations were the order of the day when the Paris Society of Pharmacy met ere dispersing for the vacation months of 1917. Besides Professor Mourcu's nomination to the Chair of Organic Chemistry at the College of France, the red ribbon in the buttonholes of Professor Délépine and M. Choay showed that the "patrie" had finally and suitably recognised the quiet but genuine services rendered by these two of its members. Nor was M. Henri Martin (ex-President and Parisian pharmacist) less warmly congratulated, for by his side sat his son, recently returned from imprisonment in Germany. The papers at the meeting dealt mainly with urine-analysis.

PASTEUR INSTITUTE.—The Board of Direction of the Pasteur Institute of Paris recently met to nominate two sub-directors in place of the late Professor Elie Metchnikoff and M. Chamberland (who died in 1908). Dr. Roux proposed the names of Dr. Albert Calmette (director of the Lille Pasteur Institute) and M. Louis Martin (head of the Pasteur Hospital), and these two gentlemen were elected *nom. con.* M. Valléry-Radot was likewise elected President of the Board in place of M. Gaston Darboux, while M. Tisserand replaces M. Valléry-Radot as Vice-President. M. Albert Calmette is still at Lille, not having quitted his post at the time the Germans occupied the city, now nearly three years ago.

EMBALMING.—Dr. Reutter, Rosemont, a native of Neuchâtel (Switzerland), and the husband of a cultivated and scientific French wife, has dedicated his new volume on "Remedies, Perfumes, and Embalmments in Past Ages" to the Association des Dames Françaises, all profits from its sale to be devoted to the benefit of the wounded soldiers. He has sought by the analysis of mummies, the study of monuments, etc., to fathom the mysteries of Egyptian embalming, as well as casting a passing glance at the partial and temporary processes used by the Greeks and Romans, and the more remarkable results attained by the Phœnicians, Incas, etc. The second part of the work treats of ancient materia medica, the evolution of pharmacy, etc., while thirty-eight illustrations of old pharmacy-pots, mortars, and retorts add to the interest of the volume.

SALE OF SACCHARIN.—A Presidential decree dated July 20 has been issued, fixing maximum prices for the sale of saccharin, which in 5-kilo. lots and over is 30f. per 100 grams; in lots of 500 grams to 4k.499, 30f. 60c.; less than 500 grams, 31f. 20c. per 100 grams. The decree further provides that all receptacles containing saccharin or any other artificial sweetening substance must be labelled in such manner as to seal the orifice, the label showing in bold characters (1) the nature of the sweetening substance; (2) the quantity of this sweetening substance contained in the receptacle, or the pure saccharin (or other sweetening

matter) content of the product; and (3) the name of the manufacturer, or, failing this, that of the vendor. It is also provided that receptacles containing certain beverages shall be labelled in bold characters with the word "saccharin" or "artificially sweetened," as the case may be.

PHARMACISTS IN WAR.—M. Arquevaux, who has been awarded the War Cross for his gallant conduct in attending to his wounded comrades after having himself been wounded, is well known to many Parisian pharmacists as the President of the Pharmaceutical Students' Association, in the Boulevard St. Michel, in bygone and more peaceful years.—M. Monséguir, in peace-time pharmacist at Gabarret (Landes), and at present assistant-pharmacist-major in the army, has been decorated for his special services in instructing French soldiers to defend themselves against suffocating gases. He has discovered a means by which worn-out gas-masks can be distinguished from those unaffected by gas.—M. Longavresse, who before the war kept open shop at Tiaret (Algeria), succumbed to the effects of asphyxiating gases—not at the Front, but in the laboratory at Saida, where he was mobilised as an assistant-pharmacist-major of the army, and was conducting experiments in this matter.

OBITUARY.—M. Charles Tanret, whose death at the age of threescore and ten was recently announced, was a type of that particularly interesting class of pharmacists who attain scientific eminence without abandoning the business side of the profession. He had just taken the second prize open to Parisian hospital pharmacy assistants (*internes* or house pharmacists) when the 1870-71 war broke out. He volunteered for service in the Chasseurs (the famous "Blue Devils" of the present struggle) for the period of the war, and then re-entered the hospital and took the 1872 silver medal. Berthelot, noticing his gifts, took him into his laboratory and showed him how to study methodically and fruitfully. Everyone was surprised when, after presenting a remarkable thesis on albumen, the promising young *savant* left Paris and opened shop at Troyes. He did not, however, abandon his research work, and in due time returned to Paris. In 1879 the Academy of Sciences awarded him the Barbier Prize for his discovery of pelletierine and ergotinine.

Australasian News.

New South Wales.

THE ASPIRIN TRADE-MARK.—Nicholas & Co. announce that they have decided to change the name of Nicholas-Aspirin to Nicholas-Aspro, which word has been duly registered as a trade-mark. The change is being made immediately in New South Wales, and will be made in the other States in succession.

Victoria.

MICE PLAGUE.—Wheat-buyers have been at their wits' end to protect from mice the immense wheat-stacks at country stations, especially in the Wimmera district. Most of the stacks have now been enclosed by sheets of galvanised iron, openings in which are left to correspond with kerosene-tins, sunk in the ground, and partly filled with water. It is no uncommon occurrence to capture 10,000 mice in this way in a single night. At Minyip recently the catch for two nights weighed rather more than a ton.

CONSULTING CHEMIST.—A pharmacist who uses the words "consulting chemist" in his advertisements in the Press applied for membership of the Pharmaceutical Society of Australasia. By direction of the Council the applicant was informed that it was unlikely that he would be elected a member unless he undertook to discontinue the use of the title referred to, and he was given this information so that he might have the opportunity of withdrawing his application, should he not see his way to revise his advertisements. The pharmacist wrote again, thanking the Council for its communication, and asked that his application might be withdrawn.

VENEREAL-DISEASES REGULATIONS.—The Regulations under the Venereal Diseases Act, which came into operation on July 1, prohibit the sale by pharmaceutical chemists of any patent or proprietary medicine specially recommended for the cure, alleviation, or treatment of any venereal disease or diseases, hyd. cum creta or its admixtures, mercury biniodide, mercury tannate, mercury cyanide in pill or tablet form, sandalwood or its derivatives, copaiba or its derivatives in the form of emulsion or capsules; kharsivan, argyrol, grey oil, or similar mercurial emulsions; methylene blue in pills, tablets, or capsules; medicated bougies, gonococcus vaccines and serums, and gonorrhoeal phylacogen.

Colonial and Foreign News.

S.V.M. IN SWEDEN.—An embargo has been placed on all stocks of methylated spirit of at least 25 litres (5½ gals.), and a census of the stocks has been taken.

AMERICAN PHARMACEUTICAL ASSOCIATION.—The annual meeting of the American Pharmaceutical Association was to be held in Indianapolis during the week beginning August 27.

STAMP-TAX IN ITALY.—Pharmacists in Italy find that the increased tax on proprietaries, etc. (*C. & D.*, June 30, p. 37), is reducing their profits on these goods, and are threatening a boycott.

CONTROL OF RUBBER PRICES.—The Austrian Central Price Testing Committee, says the "Neue Freie Pressen," has fixed standard prices, both wholesale and retail, for medical rubber goods. For certain specified articles the wholesaler may add 20 per cent., and the retailer 25 per cent., to the purchase price.

DU PONT DYES.—The Du Pont Co., Wilmington, Del., U.S.A., make a striking announcement in the Press in regard to their entry into the coal-tar dye industry. Being one of the largest explosive-manufacturers in America, and occupying a high place in finance, their success should be assured from the outset. In the course of their announcement they say: "We start with (1) the necessary raw materials, products of the United States, therefore not dependent upon Europe; (2) a chemical and engineering organisation second to none in magnitude and scientific attainment; (3) unequalled plant and laboratory facilities; and (4) an adequate commercial organisation." With highly protective legislation already on the statute-book or practically assured, American dye-makers will be so established as effectively to shut out all German dyes after peace is concluded.

Association Affairs.

Edinburgh.—Under the auspices of the Edinburgh Chemists', Assistants', and Apprentices' Association, on the suggestion of Mr. Edward Spence, pharmacist, an excursion took place on August 29 to the Royal Burgh of Linlithgow, called by Lord Rosebery "the Windsor of Scotland." The party was met at Linlithgow station by Mr. Spence, Linlithgow, and Mrs. Spence, Leslie. The visitors were first conducted over the famous historical buildings and other places of interest in the town, including the Royal Palace of the Stuarts, in which Mary Queen of Scots was born, and which has been a ruin since it was burned by Hawley's Dragoons in 1746; St. Michael's Church, the finest existing specimen of the pre-Reformation parochial churches of Scotland; the Museum of Burgh Antiquities, containing the standard copper Stirling pint of 1618, and set of bronze Stirling liquid measures—viz., pint, chopin, mutchkin, half-mutchkin, gill, half-gill, and quarter-gill—also a set of old Scots standard or Lanark weights. A visit was also paid to the pharmacy now occupied as a branch by Mr. C. M. Spence, which belonged to Dr. David Waddie, who discovered the anæsthetic properties of chloroform in 1845, and persuaded Professor Sir J. Y. Simpson to try it in 1847. This is now indicated by a bronze centenary memorial medallion placed on the house in 1913, through the exertions of Mr. Alexander Spence, Leslie. After a refreshing tea served by Mrs. Wood (*née* Spence) the party walked by Bo'ness Road and the southern aspect of Bonnytown Hill, finding good opportunities for useful botanical field work, and, after light supper at Mrs. Spence's, returned to Edinburgh by train. In the absence of the President, Mr. Rutherford Hill expressed the thanks of the Association to Mrs. Wood, Mrs. Spence, and Mr. Spence.

Liverpool.—The draft programme for the coming session was presented at a Council-meeting held at the Royal Institution on September 4, Mr. W. P. Evans (President) in the chair. The Hon. Secretary (Mr. D. H. Evans) read the fixtures as under: October 10, social evening; October 24, lecture by Mr. S. W. Woolley (Editor of THE CHEMIST AND DRUGGIST) on "Enemy Patents and Trade-marks"; January 23, annual meeting; other lectures (dates not allotted): Mr. C. A. Hill (President of the British Pharmaceutical Conference), Mr. W. L. Currie, Mr. Pilkington Sargeant, and Mr. Martin S. Hughes, Liverpool (lantern-lecture).

Legal Reports.

Sale of Food and Drugs Acts.—At Newport (Mon.) on September 1, Wyndham Adams was fined 10*l.* for selling milk containing 15.6 parts of formalin per million.

Venereal Disease Act.—At Hamilton Sheriff Court on August 3, John Sutherland, herbalist, 8 Scotia Street, Glasgow, was charged under Section 2 (1) of the Venereal Disease Act, 1917, with having on June 25 sent by post to a workman in Bellshill a circular booklet wherein he offered to treat, prescribe for, and give advice on venereal diseases. A solicitor, in pleading guilty for the accused, said that Sutherland was one of a number of men who had specialised in this treatment, and it had been his impression that the section of the Act which struck at the issuing of these circulars was among the provisions which had been postponed. Sheriff Stodart said that as this was the first case under the new Act the Court would try, if possible, to make it the last by imposing a penalty of 20*l.*

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

FARGUHAN & GILL, LTD. (P.C.).—Capital 75,000*l.* Objects: To take over the business of Farguhar & Gill, North of Scotland Colour-Works, Aberdeen. R.O., 42 St. Paul Street, Aberdeen.

JOHN PLAYER & SONS, LTD. (P.C.).—Capital 75,000*l.* Objects: To carry on business, among other things, as manufacturers of sulphuric and other acids, alkalies, and chemicals. R.O., Clydach-on-Tawe, Glam.

SURGICAL MANUFACTURING CO., LTD. (P.C.).—Capital 1,000*l.* Objects: To carry on business as manufacturers of, agents for, and dealers in surgical instruments and appliances, etc. Solicitors: Fladgate & Co., 18-19 Pall Mall, London, S.W.

GILLEARD'S DENTAL SURGERIES, LTD. (P.C.).—Capital 1,000*l.* Objects: To take over the business carried on by J. T. Gilleard and D. Cussen as "Gilleard's Dental Surgeries." R.O., 231 Seven Sisters Road, Finsbury Park, London, N.

CRONIN & CO., LTD. (P.C.).—Capital 260*l.* Objects: To carry on business as pharmaceutical chemists and druggists. The first directors are J. F. Cronin, chemist's assistant, and M. J. Cronin, farmer. R.O., Main Street, Charleville, co. Cork.

WILNER & CO., LTD. (P.C.).—Capital 5,000*l.* Objects: To carry on business as chemical-merchants, dyeware-dealers, drysalers, logwood cutters and dealers, dealers in soap, glycerin, etc. Solicitors: Ramsden, Sykes & Ramsden, Station Street Buildings, Huddersfield.

LUCILLE FRERES (LONDON), LTD. (P.C.).—Capital 100*l.* Objects: To carry on business as soap-boilers, candle-makers, etc. The first directors are S. H. Marshall, chemical-manufacturer, and G. H. Dixon. R.O., Crayford Mills, Warton Road, Stratford, London, E.

FRANCIS HALDEN, LTD. (P.C.).—Capital 1,000*l.* Objects: To carry on business as chemists, druggists, opticians, and dealers in photographic materials. The subscribers are Mrs. I. M. I. Halden, Halden House, High Possil, Glasgow, and Alex. S. Pool, pharmacist, 9 Skirving Street, Shawlands, Glasgow. R.O., 100 West Regent Street, Glasgow.

INCORPORATED NATIONAL FEDERATION OF HAIRDRESSERS, LTD. (limited by guarantee).—Objects: To associate members of the hairdressing and allied trades for the periodical consideration of matters touching their interests, to protect the interest of members, to collect and disseminate information, to improve technical and general knowledge of persons engaged in and about to engage in the said trades, to encourage the discovery and make known the nature and merits of antiseptics and inventions, etc. R.O., 108 Mount Pleasant, Bilston.

HOMOCEA, LTD.—The report for the year ended March 31, 1917, shows a loss, after meeting debenture and loan interest, of 137*l.*, thus increasing a debit balance brought down to 6,833*l.*

MELLIN'S FOOD, LTD.—The report for the year ended March 31, 1917, shows a net profit, including 15,608*l.* brought forward, of 31,358*l.* The directors recommend a dividend of 3 per cent., the same as for each of the two preceding years, leaving 19,820*l.* to be carried forward.

Births.

BRITTAI.—At Stamford, on September 2, the wife of Captain R. H. Brittain, M.G.C., of a son.

CLARKE.—At the Pharmacy, Bedwas, Mon., on September 3, the wife of F. Clarke, pharmacist, of a daughter.

Marriage.

COLE-BRUNETT.—At the Cathedral, Cloyne, on August 23, by the Very Rev. the Dean of Cloyne, Alexander Nelson Cole, Ph.C., youngest son of Alexander Cole, Youghal, to Mary Louisa, eldest surviving daughter of the late Henry Angelo Brunett, Springfield, Cloyne, co. Cork.

Deaths.

ANDERSON.—As briefly recorded in last week's issue, Mr. Edmund Hardie Anderson, chemist and druggist, died suddenly at his residence in Stirling Street, Denny, on August 27. He had been at business as usual earlier in the day, although, owing to an accident, he had for some time previously been confined to the house. Mr. Anderson was in his eightieth year, and had been in business for fifty-five years. He served his apprenticeship with the late Dr. Finlay, of Stirling, after which he managed the business of the late Dr. Cochran, High Street, Edinburgh. Later he was in charge of the sheep-dip business of the late John Rawden, chemist, Jedburgh, and in 1862 went to his native place and commenced as a chemist and druggist. When a young man he was connected with the Volunteers, was a Freemason, an Oddfellow, and one of the Directors of the



MR. E. H. ANDERSON.

People's Clubs, of which he was first Treasurer. For fifty years he was an elder in Denny Parish Church, during which period he never missed a Communion service. Mr. Anderson is survived by a widow, two sons, and two daughters. Last year Mr. and Mrs. Anderson celebrated their golden wedding.

DELAHUNTY.—At Skeenes, co. Dublin, on September 4, suddenly, Mr. Thomas Delahunty, Ph.C.

EDWARD.—At 124 Lauriston Place, Edinburgh, on September 1, Mr. James Edward, father of Mr. W. L. Edward, chemist and druggist, Edinburgh, aged seventy-seven.

JONES.—At 5 Lancaster Square, Conway, on August 26, Mr. Llewelyn Jones, chemist and druggist, aged sixty-two.

MURPHY.—At the Pharmacy, Mitchelstown, on August 30, of pneumonia, Mr. William Murphy, Ph.C., J.P., aged thirty-one. Mr. Murphy was apprenticed at Cork, and in due time became an assistant with Mr. Fleming, Athlone, and later with Mr. D. M. Watson, Dublin. He passed the Licence examination in 1907, and in the following year opened business in Mitchelstown, the place of his birth. The funeral, which took place on September 1, was largely attended. Mr. Murphy leaves a widow and four children. A personal friend writes:

"He never spared himself to serve a client, no matter how trifling the transaction. His kindly nature and winning manner won for him innumerable friends. As a citizen he won the esteem and respect of his fellow men. He crammed a full life into his thirty-one short years, and his memory will long remain green."

REA.—At Belfast, on August 29, Mr. Frank Rea, foreman for many years to Grattan & Co., Ltd., Corn Market, Belfast.

Died on Service.

BEGG.—Pioneer John Alexander Begg, Royal Engineers, has died at a casualty clearing-station of wounds received in action, aged twenty-three. News had been received that

he was dangerously wounded (*C. & D.*, September 1, p. 33), but it was hoped that he would recover. Pioneer Begg, who was a qualified pharmacist, enlisted voluntarily about twelve months ago, and had been at the Front since last November. He was a young man of much promise, and his early death is deeply regretted by a wide circle of friends in Aberdeen.

CHERRY.—Sergeant James Cherry, Royal Inniskilling Fusiliers, has been killed in action. A letter from an Army Chaplain states that Sergeant Cherry, who prior to enlistment was a pharmacist's assistant at Enniskillen, was killed instantaneously by shrapnel while gallantly advancing in the face of a very intense fire. He had a very high character in the Army, and was a most capable soldier.

CUTTS.—Private Herbert Cutts, King's Own Yorkshire Light Infantry, has been killed in action, aged nineteen. Prior to enlistment he was on the staff of Howorth & Parkin, chemists and druggists, Market Place, Doncaster.

DONCASTER.—Private P. Doncaster, Coldstream Guards, has died on service. Private Doncaster formerly represented Newball & Mason, Nottingham, in the North-Eastern Counties, and is the second of their travellers to fall in the war.

HADDEN.—At Wexford, on August 30, Mr. Henry Arthur Giles Hadden, R.A.M.C., second son of the late Mr. John H. Hadden, Medical Hall, Wexford.

MALONEY.—Private Harry Maloney, Lancashire Fusiliers, has died of wounds. Prior to enlistment, Private Maloney was a member of the Stoke-on-Trent staff of Boots, Ltd.

MELVIN.—Private Andrew G. Melvin, R.A.M.C., died on August 7 of wounds received in action. Private Melvin's home was in Aberdeen, and prior to enlistment he was a chemist's assistant.

PHIPPS.—Corporal C. W. Phipps has been killed in action. Corporal Phipps enlisted in November 1915 from the Swindon branch of Boots, Ltd.

SCOBIE.—Of wounds received in action, Lieutenant James Scobie, Gordon Highlanders, elder son of the late Mr. James Scobie, chemist and druggist, Shandwick Place, Edinburgh.

WILLIAMS.—At a casualty clearing-station in France, on August 29, of wounds, Captain W. G. Williams, Sylva Gardens, Llandudno. Captain Williams was a pharmacist, having been apprenticed to Mr. L. A. Cocker, Ph.C., Llandudno, and qualifying, after study at the Westminster College of Pharmacy, in April 1912. Soon after the outbreak of war he joined the Forces, and in December 1915 went out to France, having meanwhile been granted a commission in the Royal Welsh Fusiliers. Enthusiastic in his work, he was beloved by his fellow officers and his men. The funeral was conducted with military honours.

Personalities.

MR. T. H. W. IDRIS, J.P., chairman of Idris & Co., Ltd., was present at the funeral of Dr. W. H. Symons at Hampstead on August 30 (see *C. & D.*, September 1, p. 39).

Two members of the staff of Burroughs Wellcome & Co., Mr. Ernest Edward Seach, Drug Stock Department, and Mr. William Baxter, Construction Department, have each been presented with a clock to mark the completion of twenty-one years' service. The presentations were made on behalf of the firm by Dr. H. A. D. Jowett, works manager.

DURING THE EXPLOSION at the soapworks of Joseph Crossfield & Sons, Ltd., Warrington, on August 29 (*C. & D.*, September 1, p. 35), Mr. Rex Furness, M.Sc., son of Mr. Walter Furness, chemist, Ansdell, was one of six occupants of a small detached building which blew up. Mr. Furness had a miraculous escape from death, but his injuries include extensive burns and a fractured arm.

On September 1 a pleasant ceremony took place in connection with Goodall, Backhouse & Co., Leeds, the occasion being a presentation to Mr. W. P. Bowman, the proprietor of the business, on the completion of the fortieth year of his connection with the firm. The presentation took the form of a silver salver, which was subscribed for by the warehouse staff as a token of Mr. Bowman's unvarying courtesy and thoughtfulness to his employees. Mr. T. H. Goodson was chairman of the presentation committee, and he was supported by Messrs. L. Haigh and J. Wright, who made appropriate speeches. Mr. C. J. Oates made the presentation on behalf of the staff, and Mr. Bowman suitably responded.

Trade Notes.

CONFELLAX is put forward by Evans, Gadd & Co., Ltd., Exeter, as an efficient substitute for compound liquorice powder.

THE P.A.T.A. PROTECTED LIST has been during August extended by the addition of "Denovo" wrinkle-removing cream; Midgley's soaps; Nilde's lip-salve and lip-rouge; "Ronoleke" hot-water bottles; Sanger's eau de Cologne and lavender-water (additional).

FIRST-AID OUTFITS are to be provided by October 1 in certain factories as mentioned in last week's *C. & D.* The advertisement in this issue of John Timpson & Co., Ltd., 104-106 Golden Lane, London, E.C.1, is therefore timely and helpful to chemists living in the neighbourhood of factories.

PRICE-REVISION.—Allen & Hanburys, Ltd., 37 Lombard Street, London, E.C. 3, inform us that the prices of Café Vierge have been revised, the 1s. 9d. and 3s. 4d. sizes being sold at face value, with the wholesale prices at 17s. and 32s. 6d. The Allenburys diet tablets, which sell at 1s. 3d., cost 12s. per dozen.

ELECTRIC TORCHES.—The season for pocket electric lamps and torches is at hand. The increasing popularity of these necessities of the darkened streets should be taken advantage of by chemists, who will find a useful selection given in the advertisement in this number of May, Roberts & Co., Ltd., 7 to 13 Clerkenwell Road, London, E.C.1.

SWEETABS.—Mr. J. E. Garratt, 96 Southwark Street, London, S.E. 1, is advertising this new product for sweetening purposes. Sweetabs, which are stated to be "much superior to saccharin," are sold in slide cardboard boxes of 50, 100, and 1,000, selling retail at 1s. 2d., 2s., and 18s. The wholesale prices are given in Mr. Garratt's advertisement in this issue. We have tried the tablets in coffee, and find them excellent sweeteners. Attractive window posters and slips are supplied, setting forth the claims of Sweetabs.

MODIFIED FORMULÆ.—The British Drug Houses, Ltd., Graham Street, London, N. 1, have sent out a price-list of the modified formulæ for those preparations which have been withdrawn from the British Pharmacopœia. The circular also contains the important statement that

"in every case the strength of all essential and medicinal ingredients is guaranteed to be identical in the modified and original preparation, while in appearance, taste, and other physical properties the originals have been followed as closely as possible."

The omission of sugar—contrary to what one would expect—presents in practice difficulties far greater than in the case of glycerin, and it has taken a good deal of experimental work to produce preparations which represent the original articles. The prices are given in the circular, and are also quoted in the company's price-list for September. Since the above was written we have had an opportunity of examining the following representative preparations the formulæ for which have been modified: Syr. pruni virg., syr. rhei, syr. aurantii, syr. toluanus, and syr. zingiberis. These are really good imitations of the syrups withdrawn from the Pharmacopœia, they possess the necessary body, sweetness and flavour, and are guaranteed to be medicinally as active as the preparations which they replace.

CHRISTMAS AND NEW YEAR CARDS.—Raphael Tuck & Sons, Ltd., Raphael House, London, E.C., the well-known producers of Christmas and New Year cards and other art publications, believe in "carrying on," although their staff is much reduced by the demands of the war. It is all the more interesting to note that the company have produced a splendid variety of novelties in Christmas and New Year cards for the coming season. A collection of samples which we have received reveals that, notwithstanding the great difficulties of the times, some beautiful examples of colour-typography have been produced. The Royal Christmas cards are as usual choice specimens of work; the King's card has upon it a reproduction of Bernard Gribble's picture of the Battle of Jutland, and those of the Queen, Prince of Wales, and Queen Alexandra are quite up to the high standard of former years. The catalogue which Raphael Tuck & Sons, Ltd., issue gives details of numerous styles in Christmas and New Year cards. Altogether there are about 3,000 different designs. The company produce about 250 kinds of calendar, from the elaborate wood-panel series to the simple wall-calendars. Then there are picture-postcards—several adapted to the Christmas season—picture-puzzles, Father Tuck's Annual, and toy-books. Those of our subscribers who sell these goods should bear in mind that it is more than ever necessary that stock should be ordered early.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," August 29, 1917.)

- Shield device bearing letter "P" and three horseshoes ("P" disclaimed); for Epsom salt (1). By H. D. Pochin & Co., Ltd., 13 Worsley Street, Salford, Manchester. 378,443.
- "AZENICOL," "AZNIQUE," and "CUTISOL"; for a hide and skin disinfectant, a sheep-dip, and a disinfectant (2). By Standardised Disinfectants Co., Ltd., 26 Billiter Buildings, E.C. 3. 377,066/067, 377,317. (Associated.)
- Device including words "COLE'S OSSIDINE," etc., and horse's legs ("Cole's" disclaimed); for a veterinary embrocation (2). By W. G. Gregory, 24 Lime Street, E.C. 3. 378,325.
- "STURGICAL DRESSING, FERVEX BRAND," and oblong label bearing triangular-shaped device including mottoes "DOMINE DIRIGE NOS," "HEC OTIA FECIT," and "PALMAM QUI MERUIT FERAT"; for all goods (3). By Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool. 377,361, 378,816. (Associated.)
- "PILLS FOR BACK-ACHE, LAFATEM BRAND"; for pills (3). By Barber & Livesey, 12 Market Place, Hyde. 378,381.
- Label bearing words "CECIL WOOD'S HAZEL GROVE RHEUMATIC & INFLUENZA POWDERS, &c.," and portrait of applicant; for powders (3). By C. Wood, 4 Lever Street, Hazel Grove, near Stockport. 378,387. (Associated.)
- Signpost device and monogram "A D P"; for pills (3). By The "A.D." Pill Co., 7 South Street, Finsbury Square, E.C. 2. 379,024.
- "REDRESO" on shield with monogram "G S" and bandaged dummy; for bandages (11). By Gabrielle Sahuqué-Kunkler, 10 Rue de Moscou, Paris. 378,578.
- "COIBRO"; for food-substances (42). By Lever Bros., Ltd., Port Sunlight. 378,867.
- "RENNASE"; for food-substances (42). By Armour & Co., Ltd., Kingsway, W.C. 2. 378,932.
- "PARVEUS"; for food-substances (42). By Cerebos, Ltd., Station Road, Greatham, co. Durham. 378,942.
- "OLIVE TREE" under picture of same ("Olive Tree" disclaimed), for soap (48); Device of arrow and triangle, for perfumery, etc. (48). By C. Thomas & Bros., Ltd., Bristol. 378,066, 378,629. (Associated.)
- "VENTUSTAS" for toilet-articles (48). By Ada Frost, 3 Rushworth Street, Burnley. 378,115.
- "SILHOUTTE," with device of lady in crinoline; for perfumery, etc. (48). By Harrod's Stores, Ltd., 87-135 Brompton Road, S.W. 1. 378,476.
- "LABORUM" for toilet-preparations (48). By R. S. Angus, 24 St. Nicholas Street, Lancaster. 378,881.
- "MIRACULA"; for cellulose fabrics (50). By The Bradford Dyers' Association, Ltd., 39 Well Street, Bradford. 378,997.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

- | | |
|----------------------------------|---|
| 123/27. "Red Poppy" soft soap. | 123/21. Khosam. |
| 121/13. Potassium boro-fluoride. | 123/35. "Spiral" leg-bandages. |
| 122/10. "Sulphur Calla." | 123/34. Lotion saponis kalinus (Leslie Roberts). |
| 120/51. "Restoria" tablets. | 124/54. Peroxide of hydrogen (10 or 20 per cent. solution) in capsules, for dental use. |
| 122/63. "Rosebud" face-powder. | |

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

- | | |
|--|--|
| Clarke's blood-mixture, 72/65 | Elixir Tonicque Antiglaireux du Dr. Guille, 122/45 |
| "Cœur de Jeanette" perfume, 102/32 | Fly-papers, 120/40 |
| Colgate's specialities: agents, 101/20 | Goodman's corn-files, 81/50 |
| Collis's nervine pills, 121/90 | "Gre-solvent," 90/2 |
| Colloidal iodine in capsules, 87/71 | "Grip-ail" fly-catchers, 74/58 |
| "Conutol," 119/45 | Honey, 119/64 |
| Court plaister, 86/11 | Honey-jars (earthenware), 53/29 |
| Cowan's vaccination-shields, 74/18 | Kennedy's medical discovery, 122/45 |
| Craven-Burleigh's hair-restorer, 72/36 | "Leicester" plaster, 86/62 |
| "Cystoformin" tablets, 82/9 | Lewis's patent sanitary chamberine cover, 111/55 |
| Dial-Ciba, 45/31 | Mears' carphone, 106/7 |
| Domex belts, 30/72 | "Menthacolon," 90/55 |
| Dragée santi-nervensis, 117/12 | "Ovaltine," 98/41 |
| Dried milk in bulk, 78/12 | Oxydol, 105/73 |
| Drying-apparatus, 90/54 | Woodcock's pills, 74/18 |
| Dumas' (Bernard) filter-papers, 111/3 | "Zenatone" preparations, 117/16 |
| "Electragol," 120/53 | Zinc chloride, 116/11 |
| | "Zetal" disinfectant, 120/54 |

Observations and Reflections.

By Xrayser II.

The So-called Spanish Fly

(which is really a beetle), or some other member of the species to which it belongs, may, after all, quite possibly have been known to the writer of Ecclesiastes, if we locate him, as modern criticism tends to do, in the third or fourth century B.C., though it is quite clear, as I said last week, that it is not "the fly in the ointment." But both Hippocrates (470 B.C.) and Aristotle (356 B.C.) speak of cantharides as being used in medicine, and it is at least unlikely that its vesicatory properties remained unknown until the time of Aretæus, who belongs to the first or second century of our era, and to whom the credit of having discovered them is usually given. Dr. Walker, indeed, in his "Memoirs of Medicine" (London, 1799) says of Aretæus: "To him we are indebted for restoring the use of cantharides, which had long been rejected from the materia medica of antiquity, not only as an useless, but a dangerous, medicine, either for external or internal purposes." This is a much more likely story than the other, and it is certain that long after Aretæus wrote the most extraordinary accounts of the direful effects of cantharides applied externally received credit from many of the faculty. In one case a man was said to have passed five pounds of blood after applying it to his knee; more than one practitioner is certified to have been "grievously affected" in the same way by merely carrying the flies about with him; and so lately as in 1660 an English writer of repute declines to say more of these cases than that every man must use his own judgment concerning them.

Pereira's Prosodiacal Vocabulary

contains many items of great historical interest, but there are not many of them that may not be found explained in easily accessible works of reference. Some of them, however, are capable of more than one explanation. Carica, for instance, may be either dried figs from Caria or *Carica Papaya*, but is probably meant for the latter. Æthiopis, before seeing Mr. Kirkby's note, I identified with the Æthiopis of Lyte, Gerard, and Lemery. It was also called Meroides, because it grew profusely in the island of Meroë, in the Nile. Gerard gives it the name of mullein of Ethiopia and woolly mullein; Lyte knows it only as Æthiopis, while Lemery says it was also known as phlomis, which relates it in character to his phlomis, the *Phlomis fruticosa salvicifolia* of Tournefort. Is this latter the plant to which Mr. Kirkby refers? Feronia is one of the most interesting names in Pereira's list, being originally that of an old Italian deity, a goddess of the woods who had her seat on Mount Soracte. Helonias is veratrum; Malicorium is the rind of the pomegranate; Colutea is an adulterant of senna; Malagueta is cardamom; Melapodium hellebore; Zea spelt; and so one might go on, but most of these plant-names occur, as I have said, in well-known works, such as "Pharmacographia" and others. Hebradendron (the Hebrew tree) I cannot at the moment identify, and Saguerus also puzzles me, but probably these are not really more recondite than the rest. The name *Acinula Clavus*, for ergot, was taken into the P.L. from the "Systema Mycologicum" of the Swedish botanist Fries.

John Leech,

whose hundredth birthday falls within the week in which I write this note, claims commemoration here as a student of medicine, and especially as having been for a short time a pupil of the son of Dr. Cockle, of pill fame. Like Keats, but at an earlier age (he was but eighteen at the time), Leech abandoned physic while yet a mere student. From the Charterhouse School he went to St. Bartholomew's, where a fellow-student, Percival Leigh, who was also somewhat of a comic journalist, seems to have turned his thoughts in that

direction, and friendships with Albert Smith, then a student at the Middlesex Hospital, and with Gilbert Abbott à Beckett, still further influenced him. Financial reasons determined his studies at the hospital, but he continued them for a time under a practitioner at Hoxton, who is supposed to have taught him more of sport than of physic. A brief time with Dr. John Cockle followed, but in 1835 he gave up the profession and took to drawing for a living, it is not needful to say with what success. He died prematurely, in his forty-eighth year, of overwork and barrel-organs, still (said "Punch") "a boy of endless good humour," the most amiable of caricaturists, and perhaps, after Dickens and Thackeray, the best illustrator of the life and manners of his time.

The Shortage of Tea

with which we are threatened, and which is said to be likely to necessitate the use of teatickets, will affect most pharmacists as consumers only, though for as far back as I can remember tea in packets has been sold in some of our shops. Tea is believed to have been first introduced into this country in 1635, and the first known advertisement of its sale appeared in the "Mercurius Politicus" of September 30, 1658. It ran thus: "That Excellent and by all Physicians approved China drink, called by the Chinese *Tcha*, by other nations *Tay*, alias *Tee*, is sold at the Sultaneas Head, Cophee-House, in Sweeting's Rents, by the Royal Exchange, London." This was shortly before the issue of the broadsheet advertisement of Garway, reproduced in the *C. & D.* two or three years since, which is said to have been occasioned by it. There are, however, several variants of Garway's sheet in existence, from some of which it would appear that he meant to intimate by it not that he had dealt in tea from its date of issue only, but that from that date he had sold it at a reduced price—perhaps because of the appearance of a rival at the Sweeting's Rents "Cophee-House." The pronunciation *tay*, by the way, was the prevalent one long after this date of 1600 or thereabouts. Swift rhymes the word with *survey*, and Pope with *obey*. Tea obtained a place in the Paris Codex, and our own Dispensatories of the period endorsed a good many of Thomas Garway's statements with regard to its medicinal virtues.

The Medicinal Plants

of which Theophrastus speaks particularly are about forty in number, but it is sometimes doubtful what plant a description really refers to. Of those regarding the identity of which we may be most certain not very many are now considered of much medicinal value. Among those of which the use survives in modern practice are hemlock, aconite, meadow saffron, male fern, and scammony. He has no detailed description of the opium poppy in this chapter, but speaks of it as the only plant of which the juice is extracted from the head. Of this juice, mixed with that of hemlock and other plants, the famous druggist Thrasyas of Mantinea and his pupil Alexias used, he says, to compound a poison for which there was no antidote. It is noteworthy that in speaking of the parts of plants in which their medicinal virtue resides, he gives precedence to their juices, since it is from the Greek word for juice (*chymos*) that *chymistry* is said to be ultimately derived, or at least from the same root as it. Hellebore (black and white), dittany of Crete, various kinds of spurge, strychnos, and all-heal figure largely in this chapter, as does also a plant he calls chamæleon, which, used in a wash, has the property of foreshowing whether a patient will recover or not. There is a short section on plants credited with magical properties, but Theophrastus is no great believer in amulets and charms. He seems to have held very catholic opinions on the subject of the causes of cures: sometimes, he says, like cures like, sometimes opposites cure; and he asks whether the effect in every case is due to some single virtue, or whether a variety of causes bring about the same effect. He was, in short, a sane and an acute thinker, full of curiosity and a various knowledge. His short treatise on odours shows these qualities equally with his longer work on plants.

Peroxide of Hydrogen

(H₂O₂)

KINGZETT'S PRESERVED QUALITY.

INVALUABLE

1. As a wash for wounds, ulcers and sores.
2. For use in midwifery cases.
3. As a gargle in cases of sore throats.
4. As a mouth-wash.
5. For application in cases of bites from venomous insects.
6. For removing fruit stains from linen.
7. As an air purifier (by spray), &c.

SOLD IN 10 VOLUMES STRENGTH, AND PUT UP IN

16-oz. bottles, retailing at 1/6 each.

8	"	"	1/-	"
4	"	"	9d.	"

Also in Bulk.

Trade Prices and Leaflet on application.

The "SANITAS" Co., Ltd., Limehouse, London, E. 14.

S.V.R. — S.V.M.

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Editorial Articles.

The Use of Glycerin.

"THE shortage of glycerin is becoming still more acute, and more than ever there is need for the utmost economy to be practised in its consumption." This statement has been made by the Director of the Propellant Supplies Branch of the Ministry of Munitions, and should be taken to heart by those chemists who write to us still to inquire whether there is any prohibition on the sale of glycerin. In such cases we always advise our correspondent to reserve any stock he has for use in dispensing or in preparing medicaments in which glycerin is indispensable. Some misunderstanding has been caused by the statements that for the present wholesale houses will not have occasion to adopt "War Emergency Formulae" for those preparations which have been withdrawn from the British Pharmacopoeia, and it is as well to draw attention to another statement which the Director of the Propellant Branch has made. This is that "the Ministry of Munitions do not propose to sanction the use of British glycerin for those preparations which have been withdrawn from the British Pharmacopoeia." It follows, therefore, that it is in the national interests that glycerin-free preparations should be adopted at once, the policy of conservation of the existing supplies being imperative. The cases where glycerin is an essential part of the medicament, such as in the glycerins, glycerin suppositories, and the glycerophosphates, are the

most difficult to meet. Imported glycerin is very scarce and high in price; moreover, this source of supply may be closed at any time. Now that most of the wholesale houses have produced excellent substitutes for the preparations withdrawn from the Pharmacopœia, we counsel chemists to adopt these and so help to attain the object which the Government has in view—the diversion to national defence purposes of all the glycerin produced in this country.

“We have Made Progress.”

THIS sentence is used by the Advisory Council to the Committee of the Privy Council for Scientific and Industrial Research in the second annual Report, issued this week, of the Department of Scientific and Industrial Research (H.M. Stationery Office, 3*d.*). It will be recalled that this new Government Department was founded on July 28, 1915, for the purpose of instituting specific researches and establishing or developing special institutions for the scientific study of problems affecting particular industries and trades. The first Report, which was published in September 1916 (*C. & D.*, September 9, p. 42), gave indications that the foundation of the Research Department was being well laid. Last December (*C. & D.*, December 9, p. 46), the scheme developed into the Imperial Trust for the Encouragement of Scientific and Industrial Research, and Parliament has voted one million sterling for the purposes of the Department. The Report of this body which we have received is most encouraging, and would form one of the most optimistic of the series of articles we have published under the title of “Doing without Germany.” The main object during the year has been the organisation of industrial research. The Advisory Committee has felt the paramount importance of arousing and securing the interest of manufacturers in the application of science to industry, especially in view of the atmosphere conducive to the growth of new ideas which has been created by the war. This matter occupies the first part of the Report, the second being a description of the investigations initiated during the year and the grants made to research workers. Much interesting information is given regarding the establishment of Trade Research Associations, and a model memorandum of association is printed as an appendix to the Report. Already Associations are established or in process of establishment for research in connection with the cotton-industry, the woollen and worsted manufacturers, flax spinners and weavers, the Scottish shale-oil industry, photographic manufacturers, electrical engineering, aircraft-constructors, Scottish ship-building and steel industries, non-ferrous alloys users, British iron puddlers, Diesel engine manufacturers, coal-mining, pianoforte-manufacturers, master printers, and the cocoa-industry. Other researches not suited for Research Associations have been commenced or foreshadowed in connection with fuel, timber, concrete, illuminating engineering, and cold storage. The National Physical Laboratory, which is now controlled by the Department of Scientific and Industrial Research, is to extend its researches on such problems as the determination of constants and standards, whether physical, chemical, or bacteriological, and the accurate testing of manufactured products in the interest both of manufacturer and consumer. One of the most encouraging parts of the Report is that dealing with optical and other glass which has developed from the work of the Glass Research Committee of the Institute of Chemistry and the Standing Committee on Glass and Optical Instruments. The new Institute of Technical Optics at the Imperial College of Science is to start next month. Translations are being made of textbooks on technical optics, and a new research is being conducted with a view of removing the difficulties experienced by English makers of x-ray bulbs.

We regret to observe the absence from the Report of any reference to Research Associations or special researches in connection with chemistry. This may be due to the fact that the manufacturers of heavy chemicals and dyes are employing staffs of research chemists in their own laboratories. It is a pity that the Pharmaceutical

Society is neglecting the opportunity of organising a scheme for research in the manufacture of pharmaceutical chemicals and the investigation of the best way of preparing and utilising vegetable products for use in medicine. The manufacture of salvarsan, eucaine, novocaine, acriflavine, and the salicylates has been worked out by several firms independently, when a Research Association could have conducted the work in common and saved much time and labour which might have been employed with advantage in other directions. There are, however, hundreds of problems in pharmaceutical-chemical making which have not been touched. It is desirable that the manufacturing details be worked out so that all medicinal chemicals can be made in this country. So far as we can see, none of the State grant for research is being employed for the elucidation of pharmaceutical problems.

Doing without Germany.

V.—Japan.

ON SEVERAL OCCASIONS during the past two years we have called attention to the remarkable activity Japan has displayed in the development of her chemical industries, and the benefits she has derived in this direction have probably been on a larger scale than those of any other belligerent, as her commerce with China, India, the Straits Settlements, Australasia, and the United States has been practically unmolested since the Far Eastern seas were swept of German raiders. Prior to the war Japan, like many other countries, was almost entirely dependent on Germany for the supply of fine chemicals, of which she was a large importer, but now the general question of manufacturing chemicals has occupied a good deal of attention in Japan, and the Government has taken action in the matter. Two years ago a special Commission was set up at the Department of Commerce and Industry, the outcome of which is that the Government is now granting loans at a low rate of interest to chemical-manufacturers and contracting to buy the products, and, if necessary, high import-duties are to be imposed. At present there are a large number of Japanese chemical-factories turning out mostly technical and industrial chemicals, the chief demand for which seems to be in India, China, and the Straits Settlements. Among the new industries started since the war is the manufacture of caffeine, the raw material for which (tea-sweepings) was formerly regularly exported from Japan to Germany, mostly by German firms. One of these Japanese companies at Shizuoka (the centre of the tea-industry) is producing 300 lb. per month, and several shipments have been made to Europe. This is likely to become a permanent industry, as the European output cannot adequately supply even the home demand. Among a number of chemicals now being produced for the first time in Japan are aspirin (several tons of which has been sold in Europe), salicylic acid, bismuth salts, morphine hydrochloride, codeine, chloroform, guaiacol carbonate, ammon. ichthosulphonate, magnesia, zinc salts, etc. The distillation of wood products has developed enormously owing to the great increase in prices. This applies particularly to acetic acid, the output of which in 1915 was over 30,000 cwt., of which about 13,000 cwt. was exported, chiefly to rubber-plantations. Japan was formerly a large importer of acetate of lime from America (44,000 cwt. in 1915), but these imports have ceased, as the manufacture in Japan has increased considerably. Likewise the importation of formaldehyde, which was formerly procured from Germany (to the extent of about 18,000 cwt. annually) and America, has almost ceased, and as the supplies are not now available Japan has commenced to manufacture her own requirements. Wood alcohol is also being manufactured on a large scale under an improved process. Japan consumes about 1,700 tons of glycerin per annum, of which about 1,000 tons was supplied by Britain, the United States, and Germany, but, as we reported in the *C. & D.* of August 18 (p. 53), several plants are now working partly under Government subsidy, and it is anticipated that the supply will shortly meet the demand. The manufacture of potassium chlorate now probably ranks first

in importance in the chemical output of Japan. Before the war the production rarely exceeded 300 tons per annum, whereas it has now increased to 4,000 tons, several new companies having taken up the manufacture. There is now more than sufficient to meet the home demand, and a considerable surplus has been sent to Russia and China, while offers are also being made to this country. It is probable that there will be a big over-production of this chemical, and when European makers get to work again there is likely to be a slump: 2s. 4d. per lb. is excessive compared with a pre-war price of about 3d. Japan has made wonderful progress in the production of phosphorus, which before the war was imported to the extent of about 200,000 lb. annually from France, Germany, and Britain. A decided fillip has been given to the Japanese iodine-industry since the war, as we find exports of about 2,000 cwt. of potassium iodide in 1916, compared with about 1,200 cwt. in 1914. About twelve million pounds of dyes were annually imported before the war, and Japan is trying with varying success to supply her own requirements. There are three large concerns operating successfully, and producing dyes on an industrial scale, while it is also intended to manufacture synthetic indigo. It is evident that Japan is making a strenuous effort to free herself from the German dye octopus, and it is probable that coal-tar colours will receive special attention in the way of import-duties after the war should the home industry have developed. Japan is of course producing more of the alkali she requires, particularly soda ash and caustic soda, but there is no doubt that Great Britain will still hold the field after the war, as the raw materials are much cheaper here. Since the war an enormous trade has developed in Japanese insect-flowers and powder, the foreign demand having largely increased, especially for flowers, the exports being three times larger than those of the powder. The quality is somewhat inferior to the Dalmatian flowers, but endeavours are being made to remedy this. We note that in 1916 Japan shipped over 16,000 cwt. of insect-flowers, which was more than double the amount in 1914. There was also exported in 1916 over 8,000 cwt. of insect-powder, against 2,000 cwt. in 1914. Previous to the above period there was practically no export to European countries. It is obvious that this trade is likely to become permanent with Europe, as it has rapidly become one of the staple commodities. Among other industries which have developed we may cite the manufacture of glass bottles and of brushes, especially cheap tooth-brushes, which have been sent in large quantities to the South African and Indian markets. Sufficient has been said to indicate the willingness of Japanese capitalists to invest their money in domestic industrial undertakings, and it is certain that after the war Japan will be in a position to command greater respect as an industrial nation. Although some time may elapse before her influence in the markets of the world shows any appreciable increase, her ability to meet more completely the domestic demands for certain commodities will have its effect on other countries, particularly Germany, who had made greater progress in Japan than any other country. It may be remembered that in 1911 Germany made a new commercial treaty with Japan, which was to remain in operation for twelve years. This treaty conceded lower rates of Customs duty on goods of German origin imported into Japan and on Japanese goods imported into Germany, but although we understand it has not been formally denounced, it is not likely to be revived in its present form after the war.

Preventing Venereal Infection.

SIR BRYAN DONKIN, M.D., contributes an article to the "Nineteenth Century" under the title of "The Fight against Venereal Infection," in which he contends that syphilitic and gonorrhoeal infections ought to be fought on exactly the same lines as other infectious diseases. Sir Bryan, referring to the Report of the Royal Commission on Venereal Diseases, quotes the recommendation that there should be initiated "general measures of prevention and treatment at the earliest possible date," and proceeds to state that there has been a strong desire on

the part of those who were active in promoting the efforts of the Royal Commission that the direct question of prophylaxis should be left severely alone. The object of this note is to point out that the Venereal Disease Act has given to the medical profession a monopoly in the treatment of syphilis and gonorrhoea and has also made it an offence to recommend on labels or handbills any preparation for the *prevention* of the diseases in question. After November 1 anyone who holds out, for example, calomel ointment or permanganate solution as preventives of venereal infection renders himself liable to imprisonment with hard labour for two years.

Sale of Sugar of Lead.

IN our issue of April 14 (p. 33) we gave particulars of the Order issued by the Minister of Munitions controlling dealings in white lead, lead oxide, lead manufactures, lead alloys, and lead compounds of any kind. As the result of this Order stringent conditions have since prevailed in regard to obtaining supplies of lead salts in the open market, this being due to the strict Government control. This has particularly affected white acetate of lead, which cannot be bought in the wholesale market without a certificate to purchase from the Minister of Munitions, while the price of English white crystals is over 100s. per cwt. The retail chemist and druggist is in practically the same position as the wholesaler and dealer, as we gather from information obtained from the Minister of Munitions by Mr. W. Johnston, Secretary of the Chemists' Defence Association. Mr. Johnston has been informed that—

"No specific licence is required to deal in acetate of lead, but purchaser must obtain from the Priority Branch, 1 Caxton Street, Westminster, S.W. 1, permission to purchase the lead. This certificate would specify the purpose for which the acetate of lead is to be used or sold. Several chemists have already applied and have been granted permits to purchase acetate of lead."

Strictly speaking, the prohibition applies to all transactions in sugar of lead, both wholesale and retail, but we understand that an arrangement has been arrived at by which dealings may take place in quantities of 28 lb. or under of lead compounds without reference to the Ministry of Munitions.

Science Teaching in Schools.

THE COMMITTEE appointed by the British Association "to consider and report upon the method and substance of science teaching in secondary schools, with particular reference to the essential place of science in general education," with Professor R. A. Gregory as Chairman, has just issued a Report of some what more practical interest than the majority of such Reports. Nearly two-thirds of the Report is devoted to "typical science courses" drawn up by school-teachers of standing and experience. Extensive appendices give statistics of the space allotted to various natural sciences in different kinds of schools, of the salaries paid to teachers, and cognate matters; and in the general presentation of its conclusions the Committee throws out several suggestions that, if not in all instances novel, are worth emphasising. Among these are a protest against the classical and literary bias of the great public schools; a plea for lengthening the average school life of the pupil; a suggestion that smaller classes, "not exceeding sixteen to eighteen," are necessary for laboratory instruction; and a desire for some measure of decentralisation in examining young students. In view of the introduction of the Education Bill, and the renaissance in education which will result, the Report is of particular interest. The Report is published by the British Association, Burlington House, London, W.

In regard to the statement which we made in the Educational Number (August 18, p. 42) as to the discontinuance in 1917 of the lower general examinations in science, this was notified to Local Education Authorities in Circular 970. The list of local colleges which it was hoped to have ready is in draft form, but is not to be issued until the new regulations are ready. This will not be until after the war.

Advertising Conditions To-day.

It is good news for the chemists that the restrictions on paper have been relaxed between August 20, 1917, and January 31, 1918, subject only to the conditions contained in the general licence, and noted in *THE CHEMIST AND DRUGGIST* (August 25, p. 35). It is now possible to distribute circulars, folders, and booklets within the period mentioned to the extent of one-third the weight of paper used for the same purpose and issued between August 1, 1916, and January 31, 1917. Chemists should avail themselves immediately of this opportunity for tonicking their businesses by means of the best publicity matter obtainable. This is of such supreme importance that all else should be cast aside until this receives attention, for without advertising sales and profits are bound to languish, especially now, when so many events crowd upon the notice of the public that unless those who have something to sell keep their proposition well to the front they are certain to be forgotten. Besides, if the chemist fails to take advantage of the present relaxation of paper restrictions, departmental stores will surely do so, and the firm which has refused to pay for its place in the limelight will be found in a dark corner where no customer will seek it. If a firm has old advertising matter it is a great temptation to use it because of the cost of printing being abnormally high now, also because paper is so expensive. It will be well, however, to consider these advertisements critically before spending money on stamps, and be sure that they contain the maximum appeal—that they look up-to-date and in accordance with conditions to-day. The British trader is averse to scrapping anything—a policy that has been proved unwise, uneconomical. Better distribute a bright, sparkling, pulling, small new folder than a ponderous, expensive booklet, for these are busy times, and advertising, to be effective, must be served in small doses. The first thing to decide is what to push now. Requisites for those at the Front have first place. Few chemists have thoroughly developed this side of their businesses. It is not enough to dress a window now and again with first-aid boxes and send out lists of necessities. It is waste of energy unless supplemented by advertisements in the local Press that catch the eye. Furthermore, inquiries should be promptly answered by letters containing the maximum "punch." Nothing should be grudged to make these as pulling as possible, for if it was foolish to waste stamps in pre-war days, it is criminal to do so now. Circulars or folders with attractive covers and persuasive wording should be enclosed. They should also be sent to a carefully selected list. Folders or very small booklets are recommended, as they are more important than circulars, therefore get more consideration. Attention must again be called to the fact that never have advertised toilet-specialties had a bigger sale than now. Women are unchanged in one respect: they are still willing to expend money to increase their comeliness. Besides, much work that they are doing in munition-factories, etc., injures the complexion. Women who never before have done manual labour are serving in canteens—a work that roughens the hands, therefore the demand for creams and lotions is remarkable. True, some large firms have appealed to women war-workers much and often, but if a chemist with a good local reputation has a line of reliable beauty aids and persistently advertises these in the Press, also makes use of the personal appeal by means of dainty booklets, folders, etc., and tells in a novel and arresting way how his preparations will enhance good looks, better results will be obtained to-day than in pre-war times, because women have a grip of the purse-strings now that they never had before. Many have separation allowances, and the number of earners has also increased. For this reason also an appeal to mothers brings more results than heretofore; mothers now have the money to spend, and do so willingly for their children, so now is a good time to push baby remedies. Headache-cures, tonics, nerve-revivers of all kinds sell well, for the war is telling on the nerves of most people. All these points and many more are brought out by good advertising. A word about side-lines. How many chemists obtain the maximum profit from these? Photography, for example. Despite the fact that all photographic goods have gone up immensely, present conditions have actually promoted the growth of profits in this line when the chemist is alive to his opportunities and knows how to tackle his subject. How infinitely precious are snapshots of relatives and friends going to the Front, and the photographs of oversea friends! These are too valuable to be developed by the average amateur. This could be pointed out in a tactfully prepared folder. Many are now making this side-line pay by the method indicated.—*F. A. Degen, F.I.S.A.C.*

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Liverpool.—The report of the Pharmaceutical Committee for 1916-17 states that the panel comprises 117 chemists (161 shops) and 6 firms (7 shops) supplying appliances. The cost of prescription-checking for the year is 110*l*. Other items dealt with are the payment of chemists' accounts, special war allowance, medicated waters, excessive prescribing, Formulary and stock mixtures, prescription-analysis under the Sale of Food and Drugs Acts, the Cocaine Regulation, chemists and military service, and complaints against chemists. The last include several cases of prescriptions being altered by dispensers, and in two instances the offenders were censured; the other cases were found to be errors of judgment or alterations made in good faith, and no further action was taken.

Portsmouth.—The Insurance Committee met on August 30, when the Pricing Committee's report showed that during the half-year ended June the total number of scripts dispensed was 59,938, at an average cost of 6.21*d*. per script.

Rochdale.—The final accounts of the cost of treatment of insured persons for 1916 show the amount payable to medical men to be 11,317*l*., against 12,000*l*. in 1915, and to chemists 3,004*l*., against 3,388*l*. This is exclusive of treatment of patients in sanatoria.

Notes.

INSURANCE INQUIRY.—An inquiry under Part VI. of the National Health Insurance (Medical Benefit) Regulations (England), 1913, will be held at Coventry on September 7 to investigate a representation which has been made to the Insurance Commissioners by the Coventry Insurance Committee that the continuance of Dr. Charles Hodge Cairns upon the panel is prejudicial to the efficiency of the medical service of the insured.

INVALIDED SEAMEN AND SOLDIERS.—As mentioned last week, the Insurance Commissioners have made special regulations for medical and sanatorium benefits for invalided seamen and soldiers, whether insured or not. These have been published this week. The regulations provide a new basis of remuneration for practitioners upon the panel in respect of the medical treatment of invalided seamen, marines, and soldiers. The new system has been instituted as an emergency measure to meet representations made to the Commissioners on behalf of the medical profession that the normal system of remuneration would be inequitable as applied to invalided sailors and soldiers under the present abnormal conditions of war. The arrangements set forth in the regulations are experimental, and subject to reconsideration at any time. The payment to doctors is to be on an attendance basis, and to meet the charges a special fund has been constituted into which will be paid the sum of 9*s*. per head per annum, available in respect of each invalided soldier treated on the attendance basis, supplemented if necessary by an Exchequer grant. The following are the paragraphs in the regulations dealing with the supply of medicines, etc.:

Medicines, etc.

21. If the patient resides in a district where medicines, etc., are obtained through a chemist, the doctor should prescribe on the usual form as though for an ordinary insured person. The prescription-form need not be specially marked unless the services are in connection with the domiciliary treatment of a man recommended for sanatorium benefit, in which case the form should be marked as in the case of other patients receiving domiciliary treatment.

22. If the patient resides in a district where the doctor, under arrangements with the Insurance Committee, himself supplies medicines, etc., to his ordinary insured patients, any medicines, etc., required will be supplied by the doctor. If the latter has been notified that payment for the medicines will be made at a flat rate, it will be sufficient to enter the letter "M" in the account when medicines are supplied in addition to the symbol representing the service rendered. Thus "VM" will signify that the doctor claims in respect of a visit to the patient and also for medicines, dressings, etc., supplied by him on the occasion of the visit. If the medicine is supplied in connection with the domiciliary treatment of a man recommended for sanatorium benefit the letter "D" should be added to the symbol. Where payment is not made at a flat rate it will be necessary for the doctor to submit detailed prescriptions to be priced and paid for in the same way as medicines supplied by chemists.

Mr. James MacKenzie, The "G.O.M." of Edinburgh Pharmacy.

SOME twelve months ago we published a letter in which Mr. James MacKenzie, of Edinburgh, gave an account of a reunion of three friends at Dumfries after an interval of sixty-one years from the time they parted in 1855.



MR. JAMES MACKENZIE, J.P., F.S.A.

The three were Mr. MacKenzie himself, Mr. William Allen, Ph.C., Dumfries, and Mr. William Reid, accountant, who emigrated to America in that year; and the three never met till on the same spot they foregathered in 1913, a meeting that was again renewed in September 1916. Mr. MacKenzie began his career in pharmacy in Dumfries in the year 1851, about the age of fifteen, so that he has now passed almost four-score years, and he is, we believe, the *doyen* of Edinburgh pharmacists, and from many points of view entitled to be regarded as the "Grand Old Man" of Edinburgh pharmacy. Mr. MacKenzie went from Kinross-shire to Dumfries; from there he went to Sheffield for three years to the leading pharmacy there, and succeeded in getting strychnine successfully tried after the evidence in the Palmer trial, and later to Edinburgh, where for five years he was in the employment of Duncan, Flockhart & Co., 52 North Bridge, that historic pharmacy in which chloroform was first made for Professor J. Y. Simpson in 1847—some ten years before Mr. MacKenzie joined the firm as an assistant. Commencing business on his own account, Mr. MacKenzie saw the passing of the 1868 Act, and he was entered on the Register of Chemists and Druggists accordingly. Mr. MacKenzie always took a high position as a practical pharmacist, and he was one of the first, if not the first, to introduce cod-liver oil emulsion. MacKenzie's Emulsion had a great sale in the early 'eighties, and held premier place in Scotland for many years. The building of the new Royal Edinburgh Infirmary close to Forrest Road, and later the erection in Teviot Place of the new Medical School, furnished Mr. MacKenzie with an opportunity of which he was not slow to take advantage, and his handsome pharmacy in Forrest Road is one of those best known to the many thousands of medical men who graduated at Edinburgh. A many-sided man, James MacKenzie has always had a soul above mere shopkeeping, and very early in his career he began those literary and archaeological studies which have made his life so full and interesting. His first paper seems to have been one read before the North British branch of the Pharmaceutical Society, on November 24, 1871, the subject being "Pharmacy in Edinburgh in the Olden Time," in which he showed that independent habit of research that characterises the true student of the past. Pharmaceutical politics have always attracted him, and he has usually been "agin the Government." Many an effective speech of his at Bloomsbury Square, of the "cry aloud and spare not" order, has enlivened the tedium of the annual meetings of the Pharmaceutical Society. In 1876 there was formed in Birmingham the Chemist and Druggists' Trade Association, and Mr. MacKenzie was a member of the first Executive Committee. He was also the first Vice-President of the Scottish branch of the Association. One of the objects of the Association was to fight the unjust carrying-out of the Sale of Food and Drugs Act; and it was in relation to the public authorities that Mr. MacKenzie, who was always a hard hitter, said in 1878 that "if they wanted to strike terror into their foes they must have plenty of money at their command." Mr. MacKenzie has some hobbies, and at least two heroes in literature. One of these was Michael Bruce, the talented young Scotch poet-schoolmaster, who died in 1767 at the early age of twenty-one. Had Bruce lived he might have rivalled his great successor, Robert Burns, in the hearts of the Scottish people. Bruce was a Kinross-

shire man, and it was natural that MacKenzie should take part in the controversy that arose as to the authorship of certain poems ascribed to Bruce, and in defence of his hero he published a Life of the poet in 1905, a copy of which was accepted by His Majesty the King, and is now in the Royal Library. Translated to Dumfries in the most impressionable years of his life, it was also to be expected that such an ardent soul should imbibe the Burns spirit in the place where Burns' body lay, and to this circumstance we may ascribe his interest as a collector of editions of the great Scottish national poet. There, too, he was in the district where Scott's "Old Mortality" used to repair, as a labour of love, the tombs of the Covenanters of Dumfriesshire and Galloway, and to the atmosphere of such a place we may trace much that explains Mr. MacKenzie's after-career. Mr. MacKenzie has been a lifelong abstainer, and to his abstinence from stimulants he ascribes the good health which he has always enjoyed and the radiant good-temper that shows itself in the portrait which accompanies this sketch of his career.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

The Composition of Maple Creosote.—The composition of maple creosote has been examined by Pieper, Acree, and Humphrey ("Jour. Ind. Eng. Chem.," 1917, 462). They find the lower-boiling fractions to consist mainly of guaiacol and creosol, while in the higher fractions they discovered pyrogallol dimethyl ether, methyl-pyrogallol dimethyl ether, and propyl-pyrogallol dimethyl ether.

The Oleoresin of Douglas Fir.—Schorger ("J. Amer. Chem. Soc.," 1917, 1040) has examined the oleoresin taken from the living wood of the Douglas fir. That from the heartwood contains an essential oil, of which the principal constituents are *l*-a-pinene, *l*-limonene, and *l*-terpineol. That from the sapwood contains an oil consisting of *l*-a-pinene, 1-β-pinene, and probably a little *l*-limonene. The author considers that the terpene, described as *firpene*, which was isolated from this oil, is probably *l*-a-pinene.

Disinfecting by Fumigation.—In a paper published in the "Medical Press" Messrs. C. T. Kingzett, F.I.C., H. F. Bottomley, F.C.S., and J. E. Brimley, B.Sc., give an account of experiments made to prove that fumigation is an effective means of disinfection, an assertion to the contrary having been made by an American health officer. The new research establishes the efficacy of disinfection with sulphur-dioxide gas, particularly when generated in association with aqueous vapour. It was found unnecessary to employ complicated apparatus for the generation of formaldehyde under pressure, paraform being equally efficacious for the purpose, and more convenient.

The Principles of Ginger.—A series of important papers on the principles of ginger, by Nomura, Lapworth, Pearson, Royle, and Wykes, appears in the current issue of the "Journal of the Chemical Society." Nomura has isolated a new ketone from the rhizome, to which he assigns the name "zingerone," and the formula $C_{11}H_{14}O_3$. From this numerous well-defined derivatives were prepared. The constitution of the ketone has been settled by its preparation synthetically. Seventy c.c. of a 10-per cent. sodium-hydroxide solution was added to a solution of 25 grams of vanillin in acetone, and after being allowed to stand for four days the solution was acidified with dilute HCl and the yellow precipitate collected. After washing and recrystallisation, this condensation-product of vanillin and acetone melts at 128°-129°. This body was then reduced with platinum black and hydrogen, when the resulting body, $C_{10}H_{14}O_3$, was found to be identical in every respect with natural zingerone. The study of gingerol, the pungent body isolated by Thresh, has been resumed, and its formula established as being (probably) $C_{15}H_{22}O_4$. It is phenolic in character, and yields a methyl derivative, methyl-gingerol, melting at 64°. The work of Lapworth and his pupils appears to have been carried out independently of that of Nomura, but they, too, have isolated the ketone zingerone, whose formula they agree is $C_{11}H_{14}O_3$, and whose synthesis they also effected by several different methods. The general conclusion drawn by Lapworth and his pupils is that Thresh's oleoresin gingerol, which was later examined by Garrett and Grier, is essentially a mixture of optically active saturated phenolic compounds derived from a residue of zingerone (4-hydroxy-3-methoxy-phenylethyl ketone) in association with a molecular proportion of the residue of a saturated aliphatic aldehyde, mainly heptaldehyde.

Medical Gleanings.

Tartar Emetic in Malaria.

PROFESSOR A. POWELL and Dr. F. D. Bana, of Bombay, writing to the "British Medical Journal" (I., 1917, p. 858), state that they have tried Sir Leonard Rogers' method of treating malaria by the intravenous injection of tartar emetic in six cases, but in none of the cases was the course of the fever favourably affected.

Wound Antiseptics.

PROFESSOR F. W. ANDREWS and Dr. H. D. Dakin publish reviews on the pathological and biochemical problems of the war. Both deal with the use of hypochlorite solutions as wound-disinfectants, and both summarise the results of the research by Dr. Carl Browning at the Middlesex Hospital, which established the position of acriflavine as a wound-disinfectant. So soon as adequate quantities of the dye are available more extended trials are to be carried out under the Medical Research Committee, states Dr. Dakin.

Thymol Mouth-wash.

In the *C. & D.*, April 21, p. 44, was published a recommendation by Dr. Helen Goodrich to employ a saturated aqueous solution of thymol as a daily mouth-wash. Mr. J. T. Hall, L.D.S., Bournemouth, now predicts ("British Medical Journal," II., 1917, p. 99) that if ten people with perfectly healthy and normally sensitive mouths use such a solution of thymol, at least eight out of the ten will have marginal gingivitis at the end of three months. In a sensitive mouth it stings like mustard, and is far too pungent for regular daily use. There is little doubt, he adds, that a large proportion of the many cases of chronic marginal gingivitis (the initial stage of pyorrhoea) is due entirely to the prevalent use of mordant mouth washes and pastes. Thymol in saturated solution is an irritant to the oral tissues, and in that strength is not a suitable lotion for habitual use in a healthy mouth. Dr. Helen Goodrich has since written, agreeing that in summer-time a saturated solution of thymol is somewhat strong for a mouth-wash, and that the solution may be diluted for ordinary use.

The Use of "B.I.P."

PROFESSOR MORISON'S bismuth, iodoform, paraffin paste (bismuth subnitrate 1, iodoform 2, liquid paraffin a sufficiency), which was introduced last year as a treatment for wounds, is, according to Captain E. H. Walker ("British Medical Journal," II., 1917, p. 80), best employed as follows:

"First, the wound edges are excised, if this has not previously been done. Secondly, a free incision is made and loose fragments of bone and foreign bodies are removed. Thirdly, the wound is well dried with gauze. Fourthly, methylated spirit is swabbed over the wound; and, finally, with the wound as dry as possible, B.I.P. is well rubbed into the surface; a teaspoonful is usually sufficient. The wound is then lightly packed with dry gauze, and dry gauze is placed over the surface.

The following day I usually change the surface gauze, as there may be a little oozing. Then, provided the gauze packing keeps dry, it can be left in for at least a week.

If it becomes very moist with discharge, I take it out and mop up the discharge with a dry swab (in contradistinction to bathing it with a wet solution), and then repack it occasionally, gradually allowing the wound to close up."

Acriflavine Pastes.

AS A WOUND-DRESSING Colonel C. J. Bond, F.R.C.S., has devised antiseptic pastes on the lines of Morison's B. I. P. (*C. & D.*, August 19, 1916, p. 48 and above). The wounds are packed with acriflavine paste after preliminary surgical sterilisation and drainage. The different forms of cream or paste are thus given in the "British Medical Journal" (II., 1917, p. 6):

1. Acriflavine soap paste is made by neutralising stearic acid with sodium carbonate in the proportion of 1 part of sodium carbonate to 1½ parts of stearic acid with the addition of 0.1 per cent. of acriflavine. The soapy compound so prepared is canary yellow in colour and firm in consistence.

2. Acriflavine gelatin is made by heating French gelatin in water with the addition of acriflavine 0.1 per cent. The consistence of the jelly is determined by the amount of water added.

3. Acriflavine starch mucilage is made by adding boiling water to starch with the addition of 0.1 per cent. of acriflavine; 1 part of starch to 10 of water forms when cold a thick mucilage.

It is stated that the soap form (No. 1) is most used at present.

Veterinary Notes.

By a M.R.C.V.S.

White Scour in Calves.

THIS disease will again be with us, and it behoves us, in war-time, when there is such a depletion in live-stock, as well as an alarming decrease of milk and scarcity of butchers' meat, to prevent any increase in the death-rate of animals, especially the young. It has been proved by extensive research that this scourge can be prevented, as well as cured, by the introduction of a serum into the animal's system. No doubt or ambiguity exists as to its cause—viz., *Bacillus coli communis*—therefore a serum containing cultures of the same, injected intravenously, confers immunity against infection in the majority of cases. This treatment has proved an immense success, and no doubt in the near future all young animals will undergo injection as a prophylactic. The injection can be given when the calf is a few hours old or later. As a curative it is also effective. The serum is given in doses of 10 c.c. as a prophylactic and 20 c.c. as a curative.

Diarrhoea in Foals.

At times foals are subject to a kind of fluctuating diarrhoea, better and worse alternately. This form of diarrhoea is usually seen when the dam begins to work, and medicines seem of little avail in counteracting the trouble. Instead of persisting in forcing noxious preparations down the animal's throat into the already irritated stomach, it is best to draw off a quantity of milk from the mare before allowing the foal to suck. Never let the foal suck if the mare is in the least heated or excited, and observe strict regularity in putting the foal to the mare. By following this recommendation the diarrhoea will soon disappear, but when absolutely necessary to administer a remedy give the following:

Chlorodyni.			
Sodii bicarb.	...	aa.	3iv.
Aq. menth. pip. ad	...		3iv.

Two tablespoonfuls every two hours in boiled milk or flour-gruel.

Treatment of Wounds in Animals.

THE first essential in the treatment of wounds is cleanliness and removal of all foreign matter. On all occasions wounds and contusions should be first washed with tepid water containing an antiseptic, made thoroughly clean, foreign bodies removed, and apposition of the parts considered. For keeping the parts in apposition sutures, bandages, plasters, etc., may be required. After getting the wound as near to natural as possible, dressings are required to heal and assist nature in the various stages of progress. For lacerated and punctured—in fact, any—wounds there is nothing better than irrigation and injections of Lugol's solution (1 in 4), afterwards iodoform and boric acid (1 in 8) to be dusted on the part. Hypochlorous-acid solution is also pre-eminent in the treatment of ordinary incised and contused wounds, which should be frequently irrigated and kept moist with the solution and then dusted with the above powder. Hypochlorous-acid solution has a marked value in the separation of gangrenous tissue from healthy, and is also a prophylactic against gangrene.

Open Navel in Foal.

THIS is a very common and dire disease, and is often accompanied or succeeded by joint-ill. There is usually a discharge of water, either an incessant dropping or a flow at intervals. This non-closure is one of the principal causes of joint-ill, as the bacillus gets into the system through the opening and finally becomes localised in the various joints of the body. In treatment of these cases, prompt and strenuous measures must be adopted. Get the animal on its back, wash the navel with a strong disinfectant, and remove any foreign body. Inject tr. iodi 3ij.-iv. into the orifice, and insert a sufficiency of iodoform and boric acid. Get the surrounding skin together, and apply a good strong but not too thin ligature around it. Annul pretty tightly, and allow the part to slough off. A daily dressing of weak tr. iodi is advisable. It is necessary, previous to a mare foaling, that tapes thoroughly saturated in a disinfectant, to tie the foal's cord, should be ready. On many occasions the act of parturition occurs when no one is about. Nevertheless a careful examination of the foal should be made, and the navel be dressed daily with a strong antiseptic for a week at least. Should joint-ill be manifested skilled advice must be obtained.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental cutlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, September 6, 5.30 p.m.

BUSINESS conditions remain much as previously reported, with spot prices of some of the leading staples steadily appreciating in value. Among these may be mentioned eucalyptus oil, which is likely to go still higher. Matto Grosso ipecacuanha has been selling quietly at better prices, and a considerable quantity has been taken off the market to await a much higher figure. Senega is still advancing. Holders of acacia gums are very sparing in their offers, several asking higher rates. Fine chemicals are quiet on the whole, business being chiefly hand to mouth, with rather lower offers of a few products from neutral countries. Phenacetin is rather cheaper on lower offers from the United States, while amyl salicylate, resorcin, and benzoate of soda are also offered at lower rates. Acetanilide is firmer. A very noticeable falling-off is apparent in c.i.f. forward business on account of absence of shipping facilities. Nothing is offered forward in camphor, and spot stocks are insufficient for present demands. Cream of tartar is scarcely to be had at all. Honey is being sought after, and large holdings of lime-juice have gone into consumption. The price of silver being up 1d., to 3s. 11d., helps many articles. Other changes include a sharp advance in petroleum and petrol.

Higher	Firmer	Easier	Lower
Acetate of lime	Acetanilide	Bleaching-	Amyl
Canary-seed	Cloves	powder	salicylate
Cassia fistula	Hen-yolk	Tartaric acid	Gamboge
Chillies (Jap.)	(Chinese)		Phenacetin
Cinnamon	Honey		Resorcin
Eucalyptus oil	Ipecacuanha		Soda
Gum acacia	(M.G.)		benzoate
Peppermint oil	Lime-juice		
Petrol	Liquorice ext.		
Petroleum	Potashes		
Senega	(Montreal)		
Turpentine	Shellac		

Cablegram.

NEW YORK, September 6.—Business in drugs is fair, with quite a number of products advancing. They include peppermint oil in tins, which is now \$5.05, Mexican sarsaparilla at 32c., hydrastis (golden seal) \$5.35, dandelion 40c., senega 80c., serpentina 33c., wahoo (euonymus) bark of root 35c., copaiba 92c., and Oregon balsam of fir 90c. Sweet oil of birch is lower at \$2.15.

ACETANILIDE.—The price in the U.S.A. has advanced, and spot supplies based on the new rise should at least be worth 3s. per lb., but at the moment slightly less will buy.

ACETATE OF LIME.—The price in U.S.A. has advanced to 6c. per lb. It is doubtful if the prices of acetic acid will be revised, as they are already based on a higher parity than 6c. for acetate.

ALBUMEN is quoted at from 2s. 11½d. to 3s. per lb. on the spot for prime. Hen-yolk is firmer at 75s. per cwt. for Chinese on the spot.

ALUM is unaltered, with sales of lump from second-hands at 20l. and powdered at 22l. per ton.

AMIDOPYRIN remains firm at from 65s. to 70s. per lb. to arrive; supplies are strictly limited on spot.

AMYL SALICYLATE is rather lower at 13s. per lb. net.

ANISE OIL (STAR).—Sales have now been made at 3s. 8d. per lb. c.i.f. for September-October shipment, and the spot price of "Red Ship" is from 3s. 10½d. to 4s. Prospects point to a further rise in view of the advancing price of silver.

ASPIRIN.—The cheaper parcels are gradually being absorbed, and with the present price of salicylic acid and acetic anhydride it is probable that the makers will be compelled to raise their prices, which are at from 14s. 6d. to 15s. per lb. The production in England has evidently been reduced owing to the retirement of two makers.

BARBITONE.—Makers have raised their prices, but second-hand supplies are obtainable on the spot at from 102s. 6d. to 105s. per lb.

BELLADONNA-ROOT.—A limited quantity of Indian is offered at 6s. 6d. to 7s. per lb. for 0.7 test.

BLEACHING-POWDER is a little easier, but it is regarded as temporary; second-hand parcels can be had at 21s. per cwt. f.o.b. works.

CAMPHOR (REFINED).—Japanese slabs remain firm, with buyers of September-November shipment at 3s. per lb. c.i.f. A few cases of 1-oz. tablets are to be had at 4s. 1d., ½-oz. being practically unobtainable; sales of slabs have been made at 3s. 5d. on the spot.

CAMPHOR OIL.—From parcels just landed, either brown or white Japanese is offered at 95s. per cwt.

CANARY-SEED has been in good demand and prices are higher; ordinary Morocco is quoted 90s. and good 92s. to 93s. 6d. per quarter.

CASSIA FISTULA is in small compass; 60s. has been paid for some lean kind coming from Bombay.

CHILLIES.—Japanese in common with almost all Japanese products are dearer at 75s. for good bright and 70s. to 72s. 6d. for slightly off colour.

CHLORAL HYDRATE is unchanged, at from 7s. 6d. to 8s. per lb. for crystals in bond to arrive.

CINNAMON is again higher, Ceylon firsts on the spot being held at 2s. 3d., seconds at 2s. 2d., thirds at 2s. 1d. per lb.

CITRIC ACID is very slow, at last week's rates.

CLOVE OIL remains firm at 10s. 3d. per lb. from distillers.

CLOVES are firm, with spot sales of fair Zanzibar at 1s. 2½d. per lb., with buyers at 1s. 2½d.

COCAINE.—The home trade demand is now very small, and spot supplies of hydrochloride are available at 35s. per oz.

COD-LIVER OIL.—Our Bergen correspondent writes on August 27 that the market is nominal and without business.

CORIANDER-SEED is steady, with further sales of new crop Morocco on the spot at 65s. 6d. per cwt.

CREAM OF TARTAR is exceptionally scarce, and a few small sales of 99 to 100 per cent. powder have been made at 290s.; 98 to 99 per cent. is nominally 285s. per cwt.

CUMIN-SEED is slow of sale at 67s. 6d. per cwt. for fair Morocco.

ERGOT is firm, with good sifted Russian offering on the spot at from 2s. 2d. to 2s. 3½d. per lb.

EUCALYPTUS OIL is still a rising market, and a fair quantity has changed hands at from 2s. 8d. to 2s. 9d. It is difficult to buy 70 to 75 per cent. from dealers below 2s. 10d. to 2s. 10½d. per lb. on the spot, and business has been done at these figures. One of the tip-top brands is quoted at 3s. 6d. to 3s. 9d.

FENNEL-SEED is quoted 50s. per cwt. for good green seed.

FENUGREEK-SEED is firm, with sales of East India at 39s. 6d. and of Morocco at 41s. per cwt.

FORMALDEHYDE.—The demand of late has been less brisk, and operators have been reluctant to operate for forward speculation owing to the weaker tendency. Spot parcels command 125s. per cwt., but the easier position may only be temporary.

GAMBOGE.—At auction to-day, 38 cases Siam pipe sold at from 35l. to 35l. 10s. per cwt. for good, being much lower.

GUM ACACIA is dearer, the value of ordinary hard Kor-dofan sorts being 87s. 6d. per cwt. on the spot.

HEXAMINE.—The position is rather firmer in U.S.A.; second-hand parcels on the spot have changed hands at 3s. 9d., at which price it cannot be bought in America to-day.

HONEY.—Since the last public sale a large proportion of what was catalogued has found buyers at fully 2s. 6d. cwt. above last sale prices. The present market position is regarded as sound, and points to higher prices.

HYDRASTIS is offered at 23s. per lb. net on the spot.

HYDROQUINONE is in steady inquiry, at from 10s. 6d. to 11s. per lb.

IPECACUANHA.—A fair business has lately been done at better prices, including sales of ordinary grey at 10s. 3d. to 10s. 6d. per lb. Some quantity has been taken off the market to be held for 12s.

LIME-JUICE.—Realising the possibility of further shipments becoming problematical a certain amount of buying has taken place during the past few weeks. This has cleared off the market quite a number of parcels; good juice now commands fully 3s. per gal.

LIQUORICE-JUICE.—First-class brands are now realising 300s., and for the sticks 325s. would have to be paid.

LITHIA CARBONATE is offered at from 5s. 9d. to 6s. per lb., a comparatively low figure for war-time.

MENTHOL is quiet, and nominally quoted at 14s. per lb. spot for case lots of Kobayashi-Suzuki, and possibly 13s. 6d. for quantity. Sales are reported for September-November shipment combined with oil at 16s. c.i.f.

METHYL SALICYLATE.—The demand usually improves about this time of the year; as yet the price still keeps low, at from 4s. 9d. to 5s. per lb.

MINT OIL.—Sales of Japanese dementholised (Kobayashi-Suzuki) have been made at 3s. 6d. per lb. on the spot.

MORPHINE.—Only retail lots strictly for home requirements are available at 13s. 6d. per oz. for hydrochloride.

OPIMUM.—There are very few spot sellers of Persian opium, and holders ask 60s. to 62s. 6d. per lb. on the spot. Turkey druggists' is practically unobtainable.

PARAFFIN (LIQUID) is offered at from 12s. 6d. to 13s. per gal. in barrels for finest medicinal quality.

PEPPERMINT OIL.—Although parcels of American H.G.H. are due, they are mostly sold to arrive, and little is available in the open market, while the value for September shipment is 21s. American tin oil on the spot is unchanged at last week's prices, and to arrive 16s. 9d. to 17s. is quoted. English (old crop) is very scarce, at about 70s. per lb.

PETROLEUM has been advanced by 5d. per gal., to 1s. 8½d., for ordinary refined American, and to 1s. 9½d. for water-white on the spot.

PHENACETIN.—With American makers forcing the sale in this country prices have rapidly fallen, and to come forward it can be bought at 65s.; spot supplies still command a higher figure.

PHENAZONE is still obtainable at 55s. per lb. net on spot.

PIMENTO.—Further sales have been made at 33d., and as this spice will be used largely during the next three months there is every likelihood of an appreciable increase in value.

POTASH PERMANGANATE is unchanged, at from 13s. 6d. to 14s. per lb. on the spot.

POTASHES.—Government-branded firsts are dearer at 202s. 6d.; some seconds are quoted 5s. lower.

PYROGALLIC ACID.—All products derived from galls are appreciating in price, pyrogallal crystals being worth 16s. 6d. and resublimed 18s. 6d.

QUININE.—Makers' prices are still unchanged, but the quantities available for October-November delivery are very limited; spot parcels continue to command 2s. 10d. per oz.

RESORCIN is quoted at from 70s. to 72s. 6d. per lb., being on the easier side.

SALICYLATES.—The demand appears to be more than absorbing the home production, and the limited quantities arriving from the U.S.A. find a ready market at good prices. The spot values are from about 7s. 3d. to 7s. 6d., which prices can be shaded for forward delivery. Sodium salicylate is still only obtainable in limited quantities at 9s. to 9s. 6d. per lb.; the price quoted last week was in error.

SALOL remains firm at 10s. 6d. per lb. net.

SANTONIN remains firm, at about 160s. per lb.

SARSAPARILLA.—Little appears to be coming forward of any description. Sales of Honduras are reported at 3s. per lb. on the spot.

SENEGAL.—With small stocks actually on the spot, holders now ask 4s. per lb. net. To arrive the higher price of 3s. 10d. c.i.f. is quoted.

SHELLAC has met with a slow demand, but the spot price is firmer at 235s. per cwt. for usual standard quality TN Orange; sellers of AC Garnet quote from 245s. to 250s.

SODA BENZOATE is offered at the lower rate of from 18s. 6d. to 19s. 6d. per lb. net as to quantity and packing, and the same prices are also quoted for benzoic acid. There is more competition for orders, and it will be of interest to watch if the lower prices will stimulate the consumption.

SODA CAUSTIC.—Advantage has been taken of the temporary scarcity to force up prices to an unprecedented height, and several cases of flagrant "profiteering" have been brought under our notice. There is the possibility of makers producing a larger quantity, which may ease the position.

TARTARIC ACID shows no improvement, 2s. 10½d. being quoted for both crystals and powder.

TRAGACANTH is steady, and as fair arrivals have taken place there is a selection of most qualities on offer.

TURPENTINE has been an active and much dearer market, American on the spot closing at 58s. 6d. per cwt.

VANILLIN is firm at from 45s. to 47s. 6d. per lb., but there is little available for this month.

WAX, JAPANESE.—Spot supplies are obtainable at 79s. per cwt.

The Advance in Petrol.

Another rise in the price of petrol is announced in circulars issued by the "Shell" Marketing Co. and the Union Petroleum Products Co. The circular of the "Shell" Marketing Co. is in these terms:

"We regret to have to inform our customers that owing to the enhanced cost of ocean transportation, consequent on the great increase in the rates under the Government's war risk insurance, we are compelled as from Monday, September 3, to advance our prices to the extent of 8½d. per gal. to meet the above-mentioned extra costs."

The same reason for the extra cost is given by the Union Petroleum Products Co., with the following additional information:

"Our spot (wholesale) price in 2-gal. cans will therefore now be—
 War Spirit No. 1 3s. 6½d. per gal.
 " " No. 2 3s. 5½d. " "
 " " No. 3 3s. 4½d. " "

The increase in price took effect on September 3, so that users who a few days ago could purchase a certain grade of petrol at 3s. 2d. per gal. will now have to pay 3s. 10½d., which, with the 6d. tax, will make a total cost of 4s. 4½d. per gal.

United States Exports.

The following is the text of the explanatory statement accompanying President Wilson's proclamation concerning the control of exports from America, giving lists of articles which may be exported only under licence: "The purpose and effect of this proclamation is not export prohibition, but merely export control. It is not the intention to interfere unnecessarily with our foreign trade, but our own domestic needs must be adequately safeguarded, and there is the added duty of meeting the necessities of all the nations at war with the Imperial German Government. After these needs are met, it is our wish and intention to minister to the needs of the neutral nations as far as our resources permit. This task will be discharged without other than the very proper qualification that the liberation of our surplus products shall not be made the occasion of benefit to the enemy, either directly or indirectly. The two lists have been prepared in the interests of facility and expediency. The first list, applicable to the enemy and his allies and to the neutral countries of Europe, brings under control practically all articles of commerce; while the second list, applicable to all the other countries of the world, makes only a few additions to the list of commodities controlled by the proclamation of July 9, 1917. It is obvious that a closer supervision and control of exports is necessary with respect to those European neutrals within the sphere of hostilities than is required for those countries farther removed. The establishment of these distinctions will simplify the administrative processes, and enable us to continue our policy of minimising the interruption of trade."

American Drug and Chemical Markets.

Business has been moderately active in spite of the summer period. It is anticipated that Government requirements are likely to be extensive, and the question of price-regulation may have to be considered where values are inflated. The following notes chiefly refer to the New York markets up to August 18:

ACETPHENETIDIN (Phenacetin) is weak, with offers at \$18.

ACETYSALICYLIC ACID has been in increased demand, makers quoting \$3.50 and second-hands \$3.40.

BLEACHING-POWDER has advanced to \$2.50 per 100 lb. for prompt shipment.

CAFFEINE is in better supply at from \$11 to \$11.50 per lb.

COD-LIVER OIL.—Norwegian is strong, with most dealers asking \$120 per barrel, and Newfoundland is \$80.

COPPER SULPHATE.—Competition is reported to have been responsible for the decline to \$9.00 per 100 lb. by leading makers.

EPSOM SALT is selling at \$4.50 to \$5.00 per 100 lb.

LYCOPodium is dearer at \$1.80 per lb. in bales.

MAGNESIAS.—Light and heavy calcined magnesia is reported practically unavailable for prompt delivery. Powdered carbonate is held at about 12c. The Magnesia Association of America has announced that every plant in the country is oversold, due to the scarcity of Canadian asbestos.

MILK-SUGAR.—With small supplies holders now ask 50c. per lb.

PHENAZONE is scarce at from \$22.00 to \$23.00 per lb. from dealers.

PHENOLPHTHALEIN has declined by \$1.50 to \$13.50 per lb.

POTASH PERMANGANATE.—Sales have been made at \$4.00 to \$4.10 per lb.

QUICKSILVER is selling at \$120 per flask in a jobbing way.

RESORCIN remains at \$12 to \$12.50 per lb.

SACCHARIN is quoted at \$41.00 to \$42.00 per lb. for export. The domestic output is maintained, but the shortage seems to have been brought about by the fact that the great bulk of all the goods arriving is being sold for export. Deliveries are still being made by makers at \$18 and \$20.

SALICYLIC ACID.—Offers for spot and to the end of the year delivery have been made at \$1.35.

SALOL is scarce, and selling at from \$2.00 to \$2.10 per lb.

SODA-ASH is dearer, dealers asking \$3.50 per 100 lb. in bags for spot and \$2.75 to \$2.80 for next year.

SODA, CAUSTIC, has sharply advanced to \$8.00 to \$8.25 per 100 lb. for spot owing to the large export demand.

TERPIN HYDRATE appears to be off the market, the previous price being about 60c.

THYMOL is firm and in short supply at from \$17.25 to \$17.50 per lb.

WORMSEED OIL is very scarce and nominal at \$6.50 per lb.

Arrivals of Chemicals, Drugs, etc.

THE following arrivals have taken place at the Ports of London and Liverpool:

To London.	shark 3,585; soya, 1,400	Argol, 17 cks. 756 bgs.
(August 24 to 31.)	Opium, 3 cs.	Aspirin, 28 cs.
Acetic acid, 20 chys. 32 brls.	Oxalic acid, 24 cks.	Bromides: ammon., 60 cs. 40 bxs.; potash, 60 cs. 74 bxs.; soda, 12 cs.
Alcohol, wood, 11,667 gals.	Perfumery, unrated, 2,405 $\frac{1}{2}$; toilet-powder, 448 $\frac{1}{2}$.	Calabar beans, 40 bgs.
Annatto, 10 cks.	Petroleum jelly, 345 brls. 160 pkgs.	Calcium acetate, 2,405 $\frac{1}{2}$.
Antim. reg., 50 tons	Phenalgol, 3 cts.	Calcium borate, 8,629 bgs.
Benzoin, 3 cwt.	Phenazone, 4 cs.	Carbon black, 127 cs.
Benzyl acetate, 6 cs.	Pumice-stone, 16 tons	Cinchona, 116 bgs.
Bromides: potash, 9 cs.	Pyrogallic acid, 9 pkgs. 5 cs.	Cream of tartar, 36 cks.
Burdock-root, 11 bgs.	Quinine, 168,400 oz.	Dental goods, 541 $\frac{1}{2}$.
Cadmium metal, 786 $\frac{1}{2}$ lbs.	Resorcin, 1 kg.	Drugs, unrated, 11 brls. 10 bxs. 238 cs. 292 pkgs.
Calc. citrate, 92 cks.	Salol, 5 cs.	Dyestuffs, various, 86 brls. 36 pkgs.; chestnut ext., 1,929 cks.; dye extract, 42 brls.; indigo, 42 chts.; logwood extract, 416 cks.; sumach, 925 bgs.
Cannab. indica, 29 bgs.	Sandalwood, 826 bds.	Formaldehyde, 112 brls.
Carbon black, 228 cs.	Scopolia-root, 19 pkgs. 5 bbs.	Gentian, 106 bgs.
Carbon tetrachlor., 1 dm.	Sebacic acid, 1 cs.	Iodine, 447 kgs.
Casein, 5,200 $\frac{1}{2}$ lbs.	Seeds (bgs.): anise, 100; canary, 220; castor, 10,237; coriander, 16; cotton, 280; lin, 41,903; mustard, 773; rape 18,278	Lead arsenate, 401 pkgs.
Chemical prod., unrated, 352 cs.	Soap, toilet, 111 $\frac{1}{2}$ lbs.	Liquorice-juice, 101 cs.
Dental goods, 1,966 $\frac{1}{2}$ lbs.	Soda salicylate, 3 cwt.	Liquorice-root, 60 bbs.
Drugs, various, 5 cs.	Soda sulphite, 125 cwt.	Mineral jelly, 40 brls.
Dyestuffs, unrated, 55 pkgs. 11 dms.: indigo, 48 chts.; logwood ext., 125 brls.; myrabolans, 9,438 pkgs. 2,504 bgs.; tanners' bark, 606 tons	Sponge, 268 bbs.	Nuts and kernels: arachis, 1,192 bgs.; copra, 3,289 bgs.; palm-kernels, 27,452 bgs. 130 kgs.
Fullers' earth, 8 tons	Starches (cwt.): 300; dextrin, 200; farina, 11,261; maize, 3,860; potato-flour, 11,410; rice, 1,000	Oils, fixed: cod, 258 cks.; cod-liver, 35 brls.; cottonseed, 252 cs. 40 dms.; palm, 1,124 cks. 6 pms.; turpentine, 228 cks. 2,000 brls.
Galls, 1,150 $\frac{1}{2}$ lbs.	Stearine, 130 bgs.; stearic acid, 200 bgs.	Phenacetin, 1 bx. 5 cs.
Gamboge, 38 cs.	Surg. dressings, etc., 9 cs.	Rosin, 3,681 cks. 480 brls.
Gums (cwt.): acacia, 322; copal, 60; oil-banum, 207; sandarac, 109; tragacanth, 135	Tallow, 1,534 cwt.	Seeds (bgs.) cotton, 120; rape, 2,382
Heliotropine, 2 cs.	Tannic acid, 10 cks.	Serums, 40 $\frac{1}{2}$.
Henbane, 17 bbs.	Tartar, 61 cks.	Soda benzoate, 21 kgs.
Herbs, dried, 8 bbs.	Tartaric acid, 168 pkgs. 100 kgs.	Soda nitrate, 46 brls. 106,696 bgs.
Ipecacuanha, 10 bbs.	Terpene acetate, 2 cs.	Soda salicylate, 13 pkgs. 3,000 cs.
Liniment, 1,238 $\frac{1}{2}$ lbs.	Vanillin, 40 cs.	Starches, 5,577 bgs.
Lithopone, 900 cks.	Viterol, 2 cs.	Sulphur 120 cks. 350 bgs.
Male-fem ext., 2 cs.	Wax, not described, 47 bgs. 125 cs.	Talc, 500 bgs. 120 cs.
Menthol, 5 cs.	Wax, paraffin, 8,736 cwt.	Tallow, 989 cks.
Methyl salicyl., 1 cs.	Witch-hazel leaves, 5 bbs.	Tartaric acid, 40 cks.
Milk-sugar, 100 cs.	Zinc valerian., 2 jars	Thorium and cerium nit., 52 cs.
Mineral white, 227 $\frac{1}{2}$ lbs.	<i>Cancelled entries:</i> Jan. 12, 47 chts. indigo; Feb. 20, 10 cs. opium; Apr. 10, 312 cwt. gum damar; May 17, 1,131 cwt. shellac; July 6, 542 cwt. tragacanth	Wax, paraffin, 120 brls. 255 bgs.
French chalk, 43 $\frac{1}{2}$ lbs.	<i>To Liverpool.</i>	
Musk, 868 $\frac{1}{2}$ lbs.	(Aug. 27 to Sept. 1.)	
Nuts and kernels (cwt.): arachis, 8,240; copra, 3,000	Acetic acid, 345 brls. 115 chys.	
Oils, essential, 5 dms. 58 cs. 2 $\times$ 4 cs.: camphor, white 1,646 $\frac{1}{2}$; brown 1,143 $\frac{1}{2}$; wormseed, 60 $\frac{1}{2}$; sandalwood, 3,680 $\frac{1}{2}$; synthetic oils, 6 cs. 2 bbs.	Albumen, 378 cs.	
Oils, fixed (cases): arachis, 8,360; castor, 500; herring, 1,300; rape, 1,700;		



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Retailers and Price-changes.

SIR.—I agree with "Regulator" that the time has come for retailers to take united action with regard to the prices of proprietary articles. Some of these are now being sold at prices that are quite unremunerative—e.g., Zambuk listed at 14s. per dozen and retailed at 1s. 3d. each. The manufacturers should be told plainly that we will not sell under these conditions, and such a declaration would come with greater force from local Associations than from individuals. I would suggest that the matter be taken up by all Associations throughout the country at an early date. Even P.A.T.A. preparations need a revision of prices. For some time past I have adopted the following course: Having ascertained what percentage of my returns is absorbed by "working-expenses," I have then fixed a minimum rate of profit that any article must bear before I consent to stock it. As the wholesale cost of any proprietary increases I advance the retail price in proportion. In some cases there comes a point where the face value is such as not to permit the proportion of profit being realised; then I cease to stock altogether, and frankly tell customers my reason for so doing. In most cases the customer sees the fairness of my contention, and decides to have nothing to do with "sweated industries." Pharmacists will be foolish if they fail to take advantage of present conditions to better their position with regard to proprietors.

207 Radford Road, Nottingham.

WILLIAM GILL.

Christmas Calendars.

SIR.—The general licence relaxing the paper restrictions detailed in your issue of August 25 (p. 35) will be welcome news to many pharmacists. One of the most effective methods of local advertising is the annual issue of pocket-diaries, almanacks, or calendars. Apparently these may once more be produced and distributed provided one-third less by weight of paper is used in their production as compared with last year's issue. The previous restrictions were so drastic that many regular almanack-makers were frightened off, with the result that a valuable advertising asset was being sacrificed. But now, provided one gets in touch promptly with his printer and hustles him a bit, one's usual Christmas calendar may be sent out as hitherto in a slightly abbreviated form, or fewer in number. In any event the main thing is that the annual "booklet from the chemist," which interests and pleases the housewife and the children (and incidentally helps the chemist's sales), need not be shelved entirely. The difficulties experienced just now by the printing trades (of which I have had some experience lately) leads me to advise my brethren in the craft, however, to look into their Christmas calendar question at once, if the work is to be done in time.

Yours faithfully,

SUBURBITAN. (31/91.)

Lady Commercial Travellers.

SIR.—Permit me to offer a reply to your correspondent "Retail" (C. & D., August 25, p. 51), who disagrees with the practice of firms employing lady travellers during the absence of their regular representatives on active service. In the first place, many of these ladies are the wives of travellers on active service, and every credit is due to them for their pluck in tackling such a difficult proposition as waiting on the retail chemist and keeping their husbands' connections together for them, and at the same time keeping the old home together instead of breaking it up. In the second place, assuming the lady traveller is not any relation to the man on active service, there is a strong probability that the man is receiving some allowance from his firm, and consequently there must be some limit to the salary paid. In the third place, returned disabled soldiers of education have mostly got their old berths open for them, and certainly most of the travellers of my acquaintance are hoping to return to their old rounds when hostilities cease. Surely we should see to it that all our discharged soldiers are found permanent situations, and not merely utilised as stop-gaps and then turned down when they have served their purpose. Finally.

I would like to inform your correspondent that before joining up both my firm and myself gave instructions that if any customer took exception to being waited on by a lady, that particular customer could be left severely alone for the future and we would try to carry on without his business.

Yours faithfully,

TRAVELLER. (119/9.)

Education in the Future.

Mr. Frederick Davis, 44 Imperial Buildings, Ludgate Circus, London, E.C., forwards us a letter which he states he has addressed to the President of the Board of Education regarding education, "especially in relation to chemical and medical students." The letter deals with elementary and secondary education and university training—a good point is made regarding the multiplicity of entrance examinations—and concludes:

"All examinations should require wide knowledge with especial reference to commerce, technology, social, and economic requirements—in a word, sound practical working knowledge. Knowledge is valueless unless it can be applied. For example, at present I think the pharmacist is perhaps better educated than any other for applying his knowledge to commerce and the social good; he is a man of many parts, having to know something of everybody's business; his knowledge of chemistry, botany, and training in technics is drawn upon daily, frequently for a mere pittance. I refer, of course, to the qualified pharmacist or chemist and druggist, and not to the drug-store man; yet he is generally held in contempt by the professions, although the need of the nation is that science must be applied to industry and commerce if we as a nation are to survive."

The Fly in the Ointment.

SIR.—A knowledge of Hebrew would have shown Mr. Palmer that it is absurd to translate *zebubei maweth* as cantharides. The literal meaning of these words, the first two in Eccles. x. 1, are "flies (of) death," that is, flies which are either mortal or guilty of death, or actually dead, according to the context. They cannot possibly be rendered "flies which are capable of producing death." Moreover, the cantharis is a beetle, whereas *zebub* means a small fly of the midge or gnat tribe—entomologically, that which swarms. The A.V. translation of *shemen* as "ointment" is not too accurate: the word really denotes a spiced oil used for anointing.

Faithfully yours,

L. (122/3.)

Tariff Revision for 1918.

SIR.—I am desired by the Executive Committee of the Progressive Pharmacy Club to state that, since the publication of the Club's pamphlet on the subject of Tariff Revision for 1918, the Committee has been approached with a view to taking action on the lines indicated in the pamphlet, and that it has been decided to hold a mass meeting of panel chemists to consider the desirability of presenting a memorial to the Insurance Commissioners. The meeting will be held at Anderson's Hotel, Fleet Street, London, on Tuesday, September 25, at 9 P.M., and copies of the memorial will then be available for signature by panel chemists who are dissatisfied with the existing terms for National Health Insurance dispensing and not convinced of the adequacy of the terms proposed by the Local Associations Executive. Secretaries of local or district Associations who are prepared to secure signatures to the memorial can obtain copies of the latter by applying to me, and stating approximately for how many signatures they wish to make provision.

JOHN HUMPHREY, Hon. Secretary.

65 Park Road, Battersea Park, S.W. 11.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Appreciations.

"The C. & D. is the most useful paper published."—A. J. C. (56/35).

"The C. & D. is more appreciated than ever, if possible, in these times."—D. M. (25/13).

"I read practically every word of your magazine, and even in the management of a company pharmacy find it indispensable."—(5/33.)

T. R. B. (247/39) writes: "I had no idea of giving up so useful a journal, which I find is helpful and up to date in these difficult times."

"I must thank you for the great benefit the C. & D. is to me each week, especially at the present time, when prices are so liable to alterations."—B. L. (272/13).

A *Liverpool Pharmacist* (202/40) thus writes in renewing his subscription: "Many thanks for reminder. The C. & D. is all you claim for it, and more. So please find P.O. enclosed."

Subscriber (47/18), renewing his subscription, writes: "I do so with the greatest pleasure. The information in the market reports, etc., is worth many times the cost of subscription."

Ant-deterrents.

Referring to the note in the C. & D., September 1, p. 45, *Abel Scholar* writes: "May I suggest that the 'Lancet' is wrong on the question of ant-deterrents? You do not want to keep ants out of the house. They should be encouraged to come, and then they can be killed. There is nothing better for this purpose than a mixture of calomel and sugar—the old-time baby's teething-powder. Ants contain sulphur in their bodies, and this combines with the mercury to produce mercury sulphide, which acts as a poison to the circulation, and causes death."

From Sierra Leone.

Mr. R. J. Reuter, druggists' sundriesman, Carter Lane, London, E.C., has received the following letter from Sierra Leone:

I Saw your advertisement in Strand magazine That your a best manchant man. So am Asking you now to Sending me, by your very Fine Cataloge. I have two Shop's. But I didnot have sufecient to filled the Shop's with. So you must send me your very best Cataloge, so in the receive of your Catalogs you will know whaté I will do for you because I am A big man I have friends and Brother's sisters With will like to send order in your. I hope you are Keeping well.

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

E. B. (115/50).—PAYING CARRIAGE ON LOST GOODS.—A reply to an inquiry similar to yours was given in the C. & D., June 16, p. 52. If there are other points which are not quite clear we shall be glad to assist you further.

Muc. *Acac.* (114/58).—DISCLOSING DIRECTORS.—Companies registered on or before November 22, 1916, are required by the Companies (Particulars as to Directors) Act to file particulars as to the nationality of the directors on the form provided for the purpose. This need not be done until the usual time for sending the annual returns to the Registrar of Companies.

R. W. B. (121/34).—SALE OF COCAINE.—The procedure in regard to Insurance prescriptions containing cocaine is given in the C. & D., July 7, p. 44, the doctor's address and qualifications and the endorsement "Not to be repeated" not being required in the case of Insurance dispensing. You retain the prescription in the ordinary course of dispensing, and must be prepared to produce the script on demand of any authorised person. An entry must be made in the Cocaine Register each time you sell cocaine on prescription.

A. H. (117/55) has some dividends, payable half-yearly, on which he is charged income-tax by deduction at 5s. in the £. He does not state what is his total income, but says it is such as would make him liable to income-tax at the rate of 1s. 9d. in the £. He wishes to know for how many years back he can claim return of overpaid tax, and asks what were the rates existing in these years. [There is at present no rate of 1s. 9d. in the £ for unearned income such as dividends, but there is a rate of 3s. 6d. in the £, and as this is payable half-yearly, we assume that the rate to which "A. H." is liable is 3s. 6d. in the £, and in that case his total income must be between 500l. and 1,000l. per annum. "A. H." would then be entitled to claim repayment of the difference between the amount of the tax calculated at 3s. 6d. in the £ and the tax which he has actually paid for the current income-tax year. He can also claim repayment of the difference for the three years before the current tax year—that is, for the years 1914-15, 1915-16, and 1916-17. Assuming his total income was between 500l. and 1,000l., the rate of income-tax for which he was liable on his dividends was 1s. 8d. for the year 1914-15, 3s. for 1915-16, and 3s. 6d. for 1916-17, and the difference can be claimed back by him.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Macdonald (116/66).—"TWILIGHT SLEEP."—This is the name given to the method of obtaining painless childbirth by means of injections of morphine and hyoscine. So soon as the pains begin the patient is put in a quiet and darkened room, and plugs of cotton-wool are put in the ears. When the pains occur regularly every five or six minutes and the os is of a size sufficient to admit two fingers the initial dose is given. This consists in the hypodermic injection of morphine hydrochloride gr. $\frac{1}{150}$ with hyoscine hydrobromide gr. $\frac{1}{150}$. The patient usually rapidly begins to feel drowsy, and in an hour may fall off to sleep, but awakens when the pains come on. The second injection of hyoscine gr. $\frac{1}{300}$ is given at the end of an hour, and if some time afterwards the patient's memory exists another dose of hyoscine gr. $\frac{1}{300}$ is given. The memory test, which consists of recognising an object, is repeated later, and if necessary further doses of hyoscine are administered. A recently published book on the subject is Hellman's "Amnesia and Analgesia in Parturition" (Lewis, 6s. 6d.).

W. H. R. (111/49).—PASTE POWDER.—The special feature about the powder for making paste for paper-hanging is that it contains a small proportion of caustic soda. This helps in the breaking-down of the starch granules. At the present time you may not employ starch made from cereals for the purpose of making paste, but potato starch, which is not usually thought to be so adhesive as cereal starches, may be used.

R. C. T. (120/4).—PLASTER OF PARIS is caused to set quicker by mixing it with a solution of 1 part of (a) potassium sulphate, (b) sodium chloride, or (c) alum dissolved in 8 parts of water. Alum is generally employed, and the addition of these salts is also credited with the property of preventing the expansion of the plaster when it sets.

G. H. W. (Natal) (118/1).—(1) BOOKS ON MEDICINE.—In addition to "Diseases and Remedies" (C. & D. Office, 3s. 6d.), the following will be found useful: Latham's "Dictionary of Medical Treatment" (Churchill, 6s. 6d.), and Quain's "Dictionary of Medicine" (Longmans, 21s.). (2) We have not heard of the use of sodium sulphocarbonate as an anthelmintic for horses. As there are so many effective remedies for worms in horses it does not seem necessary to experiment with such a disagreeable liquid as sodium sulphocarbonate.

A. S. C. (119/27).—TURKEY-RED OIL is also known as sulpho-ricinoleate of soda. A formula for making it on a small scale was given in the C. & D., July 8, 1916, p. 52. Perhaps if you refer your wholesale house to this information you will be able to obtain some without the necessity of making it.

W. H. (63/39).—SYRUP OF CASCARA.—This is best made as follows:

Ext. cascarae sag. liq. ...	3iv.
Ext. glycyrrh. liq. ...	3ijj.
Tinct. carminative ...	3ij.
Syrup. ad ...	Oj.

Dose: 3j. to 3iv.

Tinct. carminativa is made by macerating bruised cardamom-seeds 3x, in spirit 15 oz. for a week, then expressing and adding tinct. zingib. fort. 3x., ol. cinnam., ol. carui, and ol. caryophylli aa. mc., and making with spirit up to 1 pint. Equal parts of syr. cascarae and syr. sennae make a good aperient syrup.

F. H. R. (122/51).—PATCHES ON PHOTOGRAPHIC FILM.—We think the patches which showed on the photographic film after development and fixing are probably due to the fact that the sensitive side of the film was protected in some way from the action of the developer. This often happens through a film sticking to the bottom of the dish or becoming attached to another film.

J. E. H. (117/36).—HENNA SHAMPO-POWDER.—See C. & D., May 6, 1916, p. 52.

S. H. P. (122/53).—BOOKS ON SALESMANSHIP.—"Selling," published by the System Co., Chicago, and Corbion and Grimsdale's "Salesmanship," by Sir Isaac Pitman & Sons, 2s. 6d.

T. C. (116/20).—We think the scales and weights to which you refer are for use by jewellers, but we will look into the matter further so soon as we have an opportunity.

Mellis (123/60).—CASSAPIE is a gummy substance prepared from the juice of the root of *Manihot utilisima*, or bitter cassava. It is employed in the treatment of corneal ulcer, a 10-per-cent. ointment with paraffin basis being applied two or three times a day.

Cameo (111/62).—(1) CALF WITH SWOLLEN KNEES.—It is not unusual for calves to be born with enlarged knees. The abnormality usually disappears in a few weeks, but there are cases where the swelling remains throughout life. When the swelling is due to an effusion of fluid into the joints the treatment consists in bathing the part with warm water and bandaging or painting with tincture of iodine or Lugol's solution. Internally potassium iodide, sodium hyposulphite, or potassium permanganate are given, the first-named being the most useful of these remedies. (2) AFTER-TREATMENT OF CASTRATION.—There is no harm in applying a lead lotion in the case of pigs which have been castrated, but it is preferable to apply a greasy ointment of a stimulating nature, such as the following:

Cupri acet. ...	...	...	3iij.
Tereb. venet. ...	...	...	3ij.
Adipis ...	...	...	3x.

Ft. ung.

N. H. P. (117/48).—TREE-BANDING COMPOSITION.—The following are representative formulæ for these preparations. Strips of paper—grease-proof paper is best—are coated with one of the mixtures and affixed round the tree 3 or 4 feet above the ground, the operation being designed to prevent caterpillars climbing the trees.

I.		III.	
Cartgrease,		Resin,	
Soft-soap	equal parts	Rape oil of each	36 oz.
		Venice turpen-	
		tine ...	20 oz.
		Wood-tar ...	5 oz.
Fish oil ...	1 gal.	Oil of turpentine	3 oz.
Resin ...	5 lb.	Mix by heating and stir-	
		ring.	

G. B. S. (118/16).—ISLE OF WIGHT BEE-DISEASE.—The active principle of the remedy for Isle of Wight bee-disease which you send is formalin. We cannot "spot" any other active ingredient, and suggest that the tint and slight flavour of lemon which the liquid possesses are an attempt to disguise the real medicament. There have been many remedies tried for this disease, most of which contain some disinfectant or germicide. Coal-tar preparations (e.g., bacterol), formalin, quinine sulphate, and hydrogen peroxide have given some measure of success, and pea-flour was not long ago vaunted as the best remedy. The difficulty which scientific bee-keepers find in devising a means of combating this devastating disease is that the cause is not well understood, hence the application of remedies is of the shot-gun type, although it must be confessed that germicides are indicated. The agencies which cause the disease are probably (a) *Nosema apis*, (b) amoeboid parasites, and (c) certain yeasts present in fermenting pollen. If the second of these bears any analogy to amoebic dysentery in man, a method is required of dislodging the parasite from the cells of the bee's stomach, or of paralysing the activities of the planor before they are able to effect their lodging there.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 14, 1867

British Pharmaceutical Conference at Dundee.

The chemists and druggists of the second commercial town of Scotland have signified their approval of the objects of the British Pharmaceutical Conference by doing all that could be done to render the Dundee meeting memorable as a scientific and social event. Those who feared that the meeting of 1867 would be inferior in importance to the gatherings of Bath, Birmingham, and Nottingham were not acquainted with their professional brethren of Dundee, and were not prepared for the united action which gave rise to the interesting and enjoyable proceedings of the past week. The hospitality of the entertainers was unbounded, and those who had the good fortune to be among their guests can never forget the kindness and courtesy of the men of Dundee.

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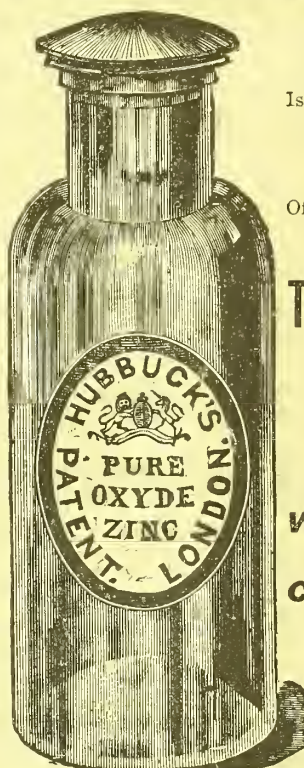
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Pulv., 7 lbs. @ 11d. lb. Antim. Tart. Pulv., 7 lbs. @ 4/- lb. Apiol, 1 lb. @ 27/6 lb. *Aqua Anethi Conc. 1-40, 1 lb. @ 3/8 lb. „ Anisi Conc. 1-40, 1 lb. @ 3/8 lb. „ Aurant. Conc. 1-40, 1 lb. @ 6/11 lb. „ Aurant. Trip., 6 lbs. @ 10d. lb.; 53 lbs. for 32/- „ Cinnam. Conc. 1-40, 1 lb. @ 4/1 lb. „ Laurocerasi, 6 lbs. @ 9d. lb. „ Menth. Pip. Conc. 1-40, 1 lb. @ 3/9 lb. „ Rosæ Conc. 1/40, 1 lb. @ 7/9 lb. „ Rosæ Trip., 53 lbs. for 37/-; 6 lbs. @ 10d. lb. „ Samb. Conc., 1-40, 1 lb. @ 6/11 lb. „ Samb. Trip., 6 lbs. @ 10d. lb. Araroba, fine powder, 7 lbs. @ 9/6 lb.; 1 lb. @ 10/- lb.	Argent. Nit., 6's to oz., 25 oz. @ 3/- oz.; 1 oz. @ 3/1 oz. Argent. Nit., Cryst., 25 oz. @ 2/11 oz.; 8 oz. @ 3/- oz. Arsenic, Alb. Pulv., 2 cwt. @ 110/- cwt.; 7 lbs. @ 1/1 lb. Atropinæ Sulph., P.B., 1 oz. @ 135/- oz. Auri Chlor., 6 doz. 15 gr. tubes @ 27/3 doz.; 1 doz. 15 gr. tubes @ 27/6 doz. *Bals. 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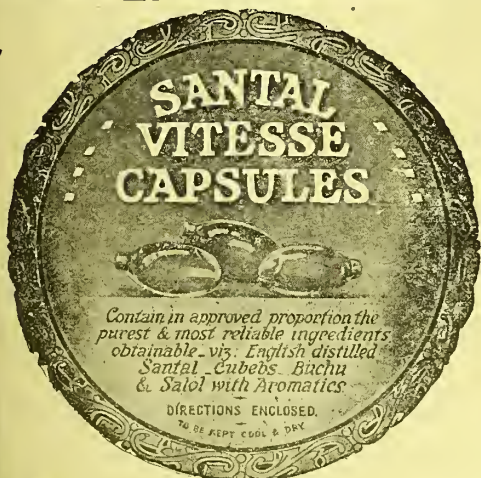
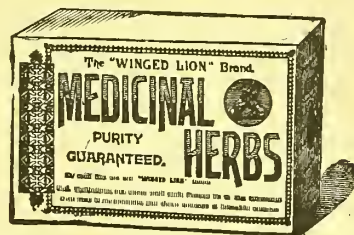
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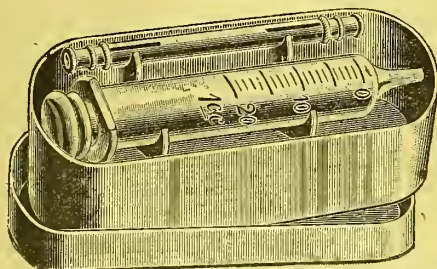
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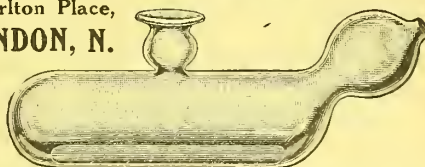
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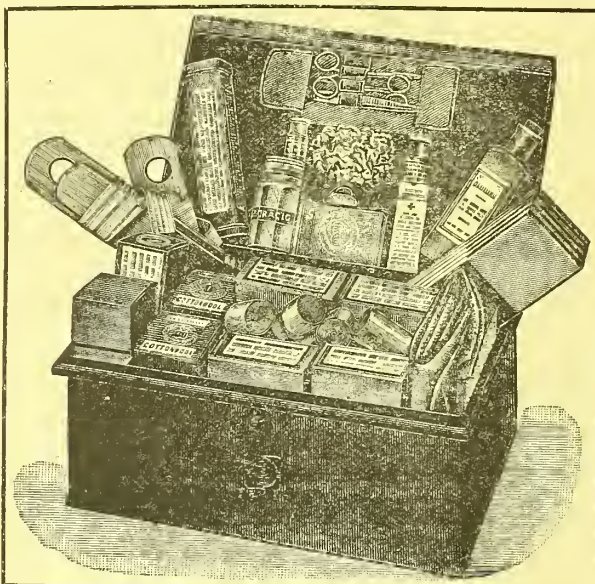
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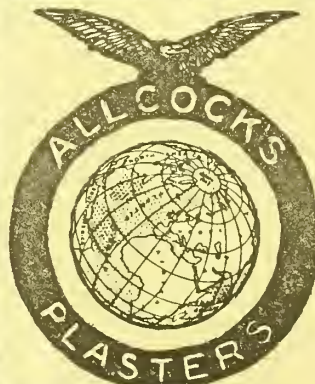
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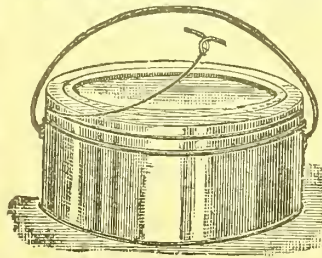
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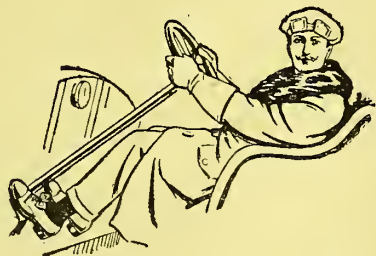
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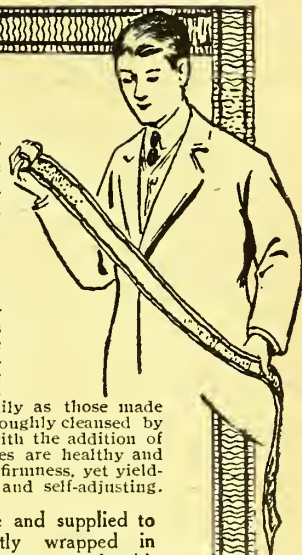
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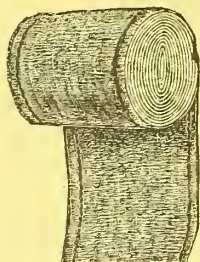
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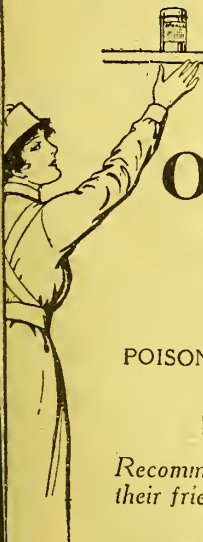
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